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VIA ELECTRONIC MAIL

January 24, 2017

Erich Weissbart, P.G.
EPA Region 3
Land and Chemicals Division
701 Mapes Road
Fort Meade, MD 20755

Subject: Semi-Annual Project Progress Report: July-December 2016
RCRA Corrective Action Permit MDD046279311
Former Appliance Park East Facility
Columbia, Maryland

Dear Mr. Weissbart:

Please find attached the Semi-Annual Project Progress Report for the former Appliance Park East facility in Columbia, Maryland. This report covers the period from July 1 to December 31, 2016, and is submitted by the General Electric Company (GE) pursuant to Condition II.C of the above-referenced permit, as modified by the United States Environmental Protection Agency (EPA).

As required by Condition I.B.9 of the above-referenced permit, I certify under penalty of law that the enclosed report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact me or Belssi Chang Lee of Tetra Tech at (410) 990-4607 if you have any questions regarding the attached report.

Sincerely,

Kevin Mooney
Senior Project Manager
GE Global Operations - Environment, Health & Safety

Attachment

cc: Belssi Chang Lee, Tetra Tech (via email)
 Ed Hammerberg, MDE (via email)
 Curt Lebak, RREEF (via email)
 Bob Jenkins, Howard Hughes Corporation (via email)

SEMI-ANNUAL PROJECT PROGRESS REPORT

RCRA CORRECTIVE ACTION PERMIT (PERMIT)

Permittee: General Electric Company (GE)

Permit Number: MDD046279311

Prepared for GE Global Operations – Environmental Remediation
159 Plastics Avenue
Pittsfield, Massachusetts 01201

Prepared By: Tetra Tech, Inc. (Tetra Tech)
51 Franklin Street, Suite 400
Annapolis, Maryland 21401

Date: January 24, 2017

Report Period: July 1, 2016 to December 31, 2016

Copies: Maryland Department of the Environment (MDE)
RREEF Engineering
The Howard Hughes Corporation

1. Progress Made This Period

Underground Storage Tank (UST) No. 9 - CMS Unit 4

The most recent post-termination groundwater monitoring event was performed in November 2016; the report (Tetra Tech, 2016) was previously submitted to EPA. Attachment 1 includes a summary of the results. All well sample results were non-detect except for the following detections:

| Compound (µg/L) | Benzene | Ethylbenzene | MTBE | Toluene | Xylene |
|-----------------------------|----------------|---------------------|-------------|----------------|---------------|
| Clean-up Goal (µg/L) | 5 | 700 | 20 | 1,000 | 10,000 |
| ERM-4 | - | - | - | - | 3.7 |
| ERM-6 | - | 120 | - | 1.1 | 220 |
| TP-8 | 1.2 | - | - | 2.4 | 18.4 |

GE will be in communication with EPA regarding approval to perform final verification sampling in April/May 2017 in accordance with the 2013 Post-Termination SAP to verify attainment of the clean-up goals.

Volatile Organic Compounds (VOCs) in Soil and Groundwater Beneath and Around the Former Manufacturing Building - RCRA Facility Investigation (RFI) Unit 2

The Parcel A-10 pump-and-treat system was fully operational over the last six months as noted in the monthly monitoring reports submitted to the United States Environmental Protection Agency (EPA) for this reporting period (i.e., July through December 2016). Attachment 2 includes summary tables and figures showing the site plan and performance monitoring results for the pump-and-treat system.

A groundwater monitoring event was conducted in November 2016 in accordance with the approved SAP dated May 4, 2011; the report (Tetra Tech, 2016) was previously submitted to EPA. Attachment 2 includes a summary of the results including groundwater elevation data, groundwater elevation contour maps for the saprolite and bedrock units, and summary of analytical results. The groundwater samples were collected using passive diffusion bags (PDBs). Tetra Tech deployed the (PDBs) on November 3, 2016 and retrieved them on November 18, 2016 to collect the groundwater samples. The samples were analyzed for volatile organic compounds (VOCs) by EPA Method 8260. The groundwater analytical results are summarized in Table 2; Table 3 presents trichloroethene (TCE) results since June 2007. Figures 9 and 10 illustrate the change in TCE concentrations since June 2000 at wells located within the plume core and at wells located at the plume toe and cross-gradient of the plume, respectivelyⁱ. The groundwater elevation and sample results from the November 2016 sampling event show that the hydraulic containment system continues to operate as intended. Specifically, VOC-impacted groundwater continues to be contained on Parcel A-10.

The Phase II soil vapor extraction (SVE) system was fully operational over the last six months except as noted in the monthly field logs submitted to EPA for this reporting period (i.e., July through December 2016). Attachment 3 includes a site plan for the Phase II SVE system, a plot showing the cumulative VOC mass removed by the system through time, and a flow chart that shows how the system is progressing through the termination criteria specified in the system's updated operation and maintenance manual submitted to EPA in June 2011.

Press Pit SVE manifold lines PMVE-2 and PMVE-4 (SVE wells PVE-3, PVE-4, PVE-7, and PVE-8) were shut down on July 22, 2016 to start termination testing. Per the termination criteria outlined in the flow chart in Attachment 3, the test wells were turned on for approximately one hour on August 4, September 1, and December 1, 2016 to take photo-ionization (PID) readings. The PID readings measured (1 to 8 parts per million [ppm]) were less than ten percent (<10%) of the original concentrations ("concentration criteria"). The wells will be turned on again in early March 2016. Should the PID readings remain below 10% of the original concentrations, the PMVE-2 and PMVE-4 wells will be considered to have met the termination criteria and will

ⁱ Abnormalities in the trends shown on Figure 9 (2MW-11) and Figure 10 (S-2, S-4, 2MW-4) are due to non-detect results, which are considered to be anomalous based on the analytical results from subsequent sampling events.

remain off. Subsequently, termination testing will start on the remainingⁱⁱ/active Press Pit SVE manifold lines PMVE-1, PMVE-3, and PMVE-5 (SVE wells PVE-1, PVE-2, PVE-5, PVE-6, PVE-9, and PVE-10).

Warehouse Building Oil/Water Separator and Acid Neutralization Units - RFI Unit 6

The next sampling event will be conducted in November 2017. The most recent monitoring event under the EPA-approved August 19, 2002 SAP was performed on November 29, 2012; groundwater samples were collected from monitoring wells 6MW-1, 6MW-2, 6MW-3, and OBG-65. The groundwater monitoring results were presented in a summary report (ERM, 2012) that was previously submitted to EPA. Attachment 4 includes a summary of the groundwater monitoring results including groundwater levels and the respective groundwater elevations (Table 1) and summary of analytical results (Table 2). VOCs were not detected in any of the groundwater samples except for 6MW-2, which is located at the former oil/water separator under the building. The groundwater elevation data and sample results show that the extent of VOC-affected groundwater remains within the footprint of the Warehouse Building.

Other Activities Conducted Pursuant to the Permit

The new RCRA Corrective Action Permit was issued by EPA for the facility with an effective date of November 3, 2012. In accordance with Part II.B.3 of the Permit, GE submitted an Institutional Control Plan (IC Plan) dated January 24, 2013 to EPA. By its email to GE, EPA approved the IC Plan on February 5, 2013. EPA approved the environmental covenants (ECs) for each of the properties subject to the IC Plan previously; however, following submittal of the signed ECs for parcels A-8, A-10 and A-15, MDE and EPA requested that the EC template be revised. An EC has been executed and recorded for Parcel A-8. GE is in communication with EPA regarding the ECs for the remaining parcels.

2. Problems Encountered During This Period

No problems were encountered during this period. The pump-and-treat system and Phase II SVE systems were fully operational over the last six months except as noted in the monthly monitoring reports and inspection logs previously provided to EPA.

ⁱⁱ As indicated in the previous progress report, SVE wells TVE-1S, TVE-1D, TVE-11D, and TVE-12D met the termination criteria in June 2016 and remain off.

3. *Projected Work for the Next Reporting Period*

UST No. 9 - CMS Unit 4

As indicated previously, GE will be in communication with EPA regarding approval to perform final verification sampling in April/May 2017.

VOCs in Soil and Groundwater Beneath and Around the Former Manufacturing Building - RFI Unit 2

The Parcel A-10 pump-and-treat system is expected to operate at full-scale through the next reporting period, with the exception of the operation of recovery well B-3 (which will be sampled again in September 2017 to monitor for rebound in VOC concentrations). The next groundwater monitoring event will be conducted in May 2017 in accordance with the SAP. Groundwater monitoring will include the monitoring wells on a semi-annual and annual sampling frequency.

The SVE system will continue to operate with Press Pit SVE manifold lines PMVE-1, PMVE-3, and PMVE-5 (SVE wells PVE-1, PVE-2, PVE-5, PVE-6, PVE-9, and PVE-10). GE will consider starting termination testing in these wells and evaluating if the Phase II SVE system should be shut down in 2017 based on the termination testing conducted to date.

Warehouse Building Oil/Water Separator and Acid Neutralization Units - RFI Unit 6

The next monitoring event is scheduled for October/November 2017.

Other Activities To Be Conducted Pursuant to the Permit

As stated previously, GE is continuing work towards finalizing the ECs for each of the properties subject to the IC Plan. Once the ECs have been executed by all appropriate parties, the ECs will be recorded with the Howard County Land Records.

4. *Changes in Personnel*

Effective January 1, 2017 the GE project manager for this project is Mr. Kevin Mooney.

References

Environmental Resources Management (ERM), 2012. *Analytical Results for Ground Water Sampling at RFI Unit 6 Former Appliance Park East Facility, Columbia, Maryland, RCRA Corrective Action Permit MDD046279311*. December 27, 2012.

Tetra Tech, Inc. (Tetra Tech) 2016. *Biennial Groundwater Sampling and Analyses for Underground Storage Tank (UST) No. 9. RCRA Corrective Action Permit MDD046279311, Former Appliance Park East Facility, Columbia, MD*. November 30, 2016.

Tetra Tech, 2016. *Semi-Annual Groundwater Monitoring Report, November 2016 Sampling Event, RCRA Corrective Action Permit MDD046279311, CMS Units 2 and 7, Former Appliance Park East Facility, Columbia, Maryland*. December 8, 2016.

Attachments

Attachment 1: Findings Summary for Underground Storage Tank (UST) No. 9 - CMS Unit 4

Attachment 2: Findings Summary for Groundwater for RFI Units 2 and 7

Attachment 3: Findings Summary for the Phase II SVE System at RFI Units 2 and 7

Attachment 4: Findings Summary for Warehouse Building Oil/Water Separator and
Acid Neutralization Units RFI Unit 6

ATTACHMENT 1

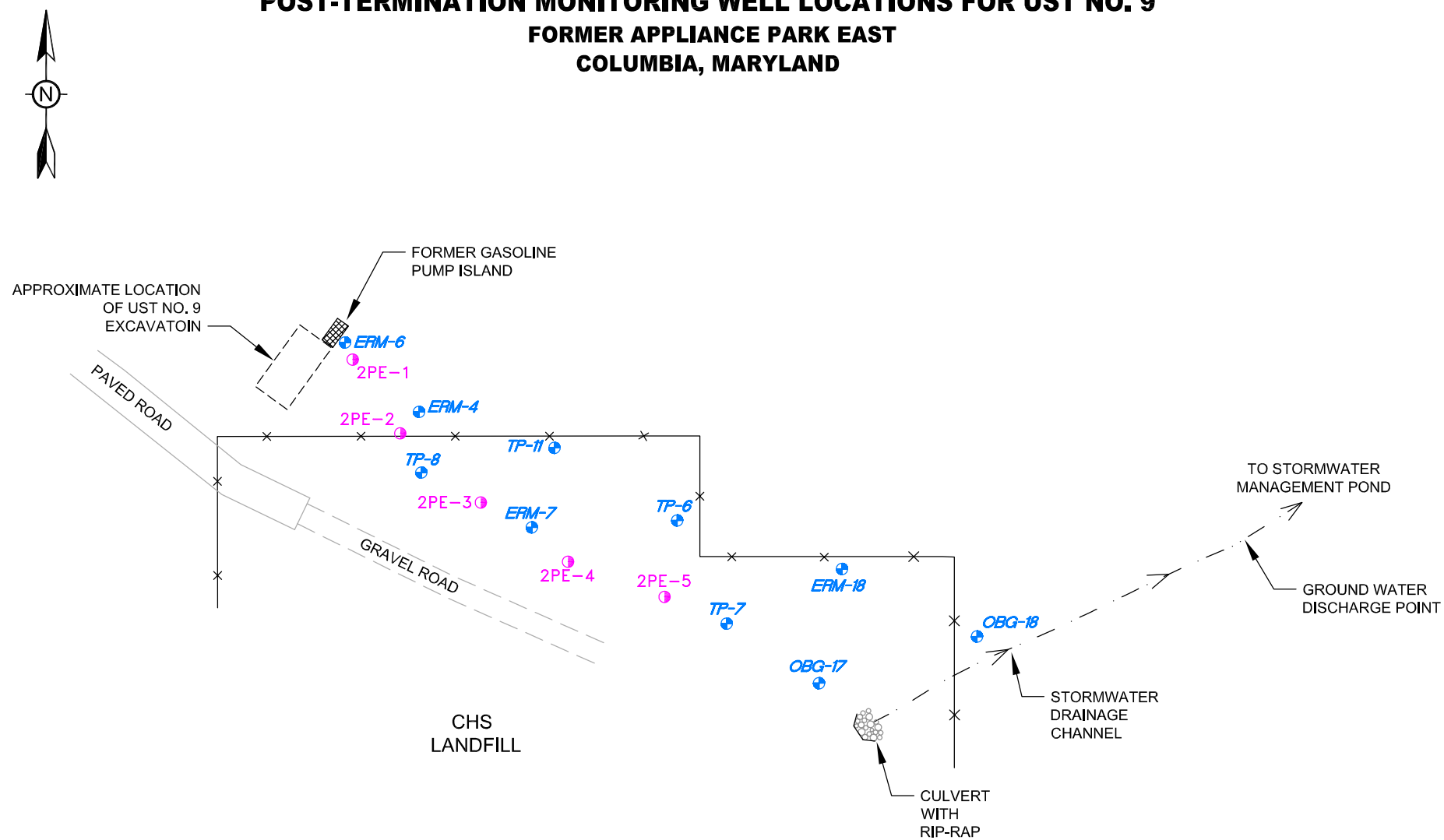
To Semi-Annual Project Progress Report
RCRA Corrective Action Permit
No. MDD046279311

General Electric Co.
Former Appliance Park East Facility
Columbia, MD

Period 1 July 2016 to 31 December 2016

Findings Summary for Underground Storage Tank (UST) No. 9 - CMS Unit 4

FIGURE 1 **POST-TERMINATION MONITORING WELL LOCATIONS FOR UST NO. 9** **FORMER APPLIANCE PARK EAST** **COLUMBIA, MARYLAND**



LEGEND

- 2PE-1 2-PHASE WELL LOCATION
- + ERM-4 POST-TERMINATION MONITORING WELL LOCATION
- x—x— FENCE

BASE MAP SOURCE:
 ERM, INC., DECEMBER 2012 REPORT

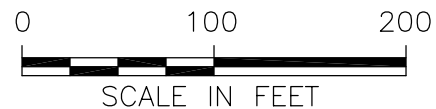
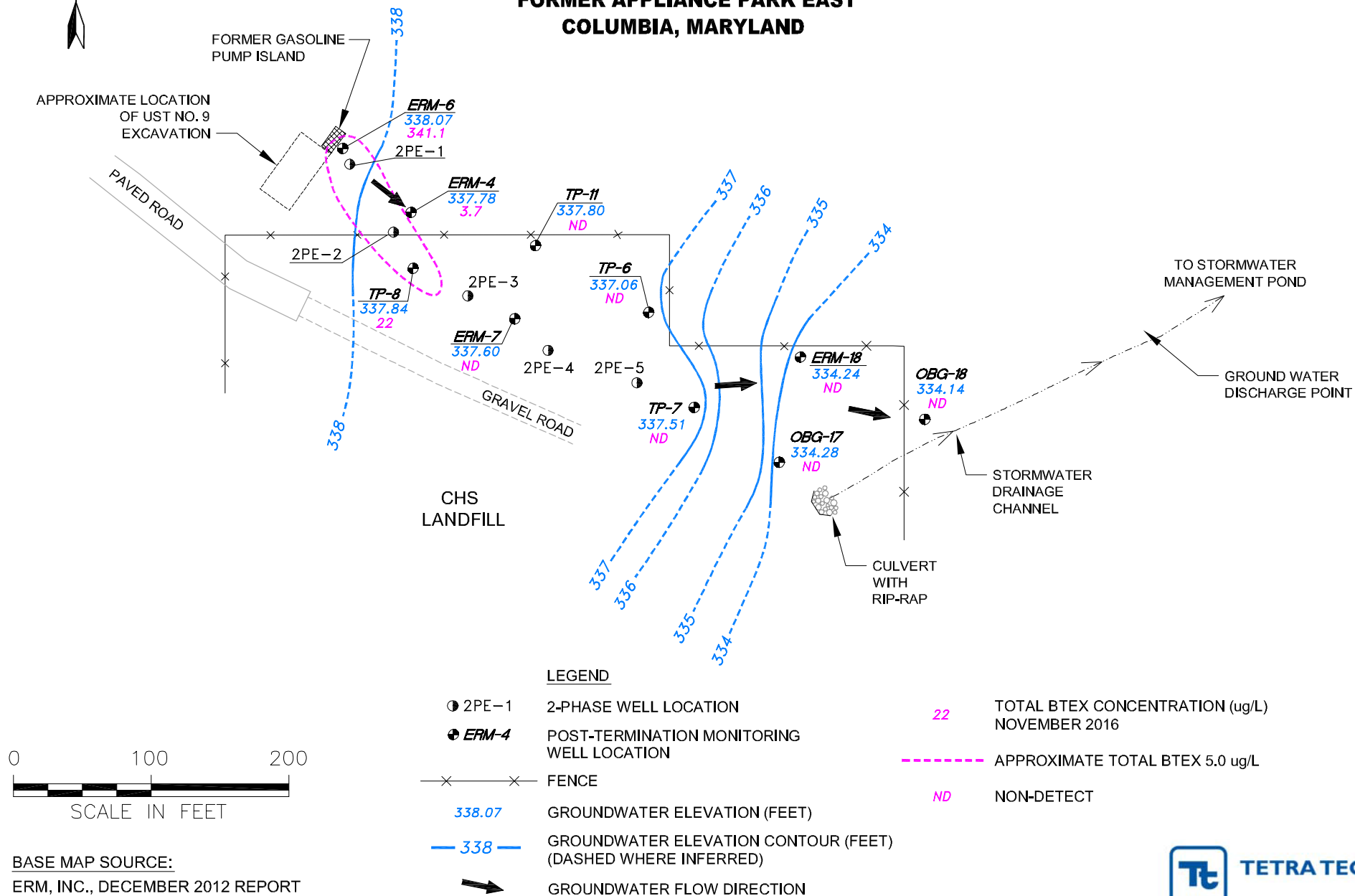


FIGURE 2 **GROUNDWATER CONDITIONS** **NOVEMBER 2016** **FORMER UST NO. 9 AREA** **FORMER APPLIANCE PARK EAST** **COLUMBIA, MARYLAND**



BASE MAP SOURCE:

ERM, INC., DECEMBER 2012 REPORT

Figure 3
Benzene Concentrations
UST No. 9
Former Appliance Park East Facility
Columbia, Maryland

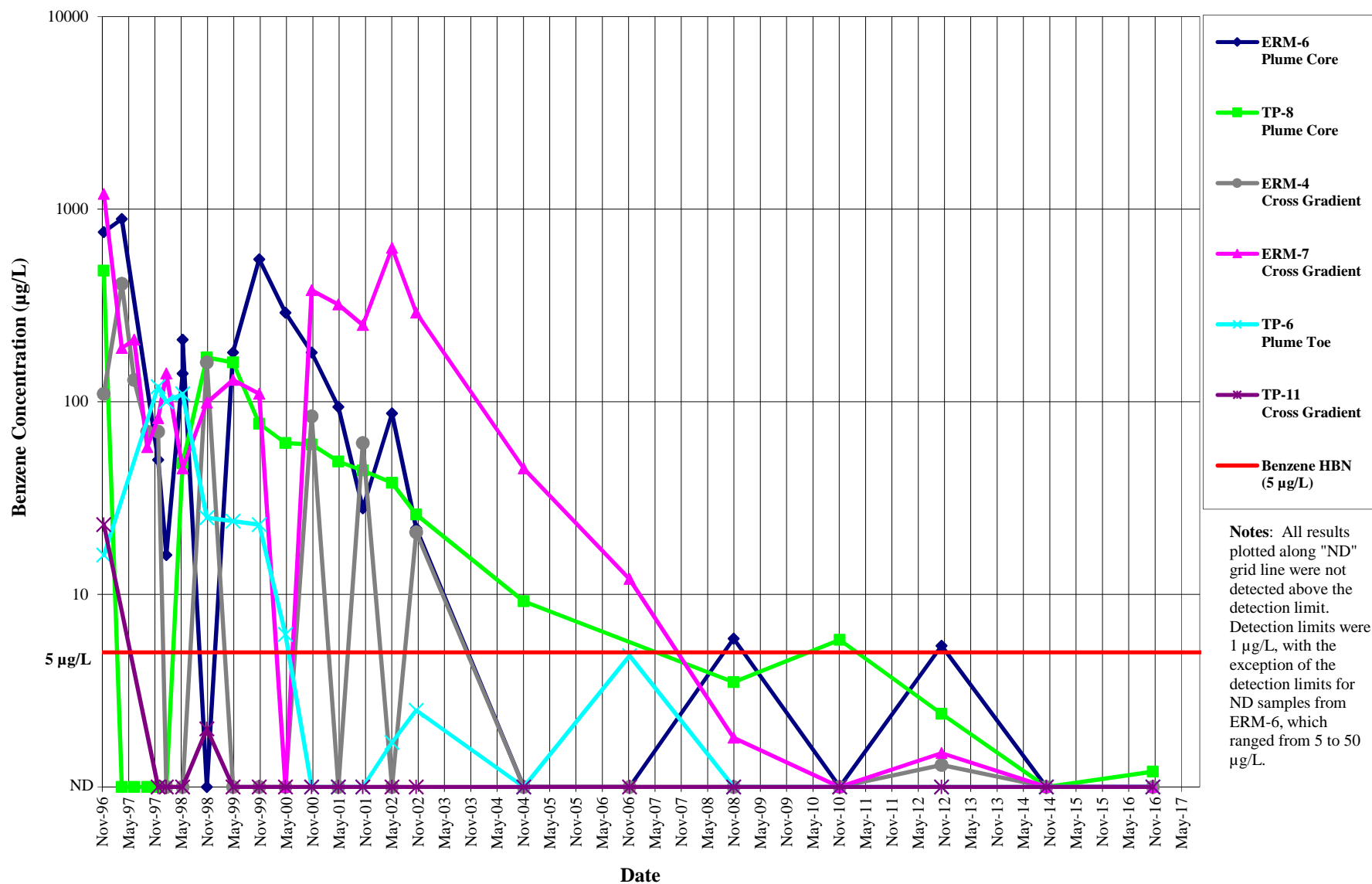


Table 1
Summary of Ground Water Elevations in Monitoring Wells at UST No. 9
Former Appliance Park East Facility, Columbia, Maryland
November 2016

| Well ID | Reference Elevation (feet msl) | Re-Survey Reference Elevation ^{(a), (b)} (feet msl) | 10/23/2012 | | 10/22/2014 ^(c) | | 11/1/2016 | |
|---------------------|-----------------------------------|---|-------------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|
| | | | Depth to Ground Water (feet bre) | Ground Water Elevation (feet msl) | Depth to Ground Water (feet bre) | Ground Water Elevation (feet msl) | Depth to Ground Water (feet bre) | Ground Water Elevation (feet msl) |
| ERM-4 | 359.96 | -- | 22.67 | 337.29 | 21.75 | 338.21 | 22.18 | 337.78 |
| ERM-6 | 360.62 | -- | 23.06 | 337.56 | 21.15 | 339.47 | 22.55 | 338.07 |
| ERM-7 | 366.30 | -- | 29.17 | 337.13 | 28.26 | 338.04 | 28.70 | 337.60 |
| ERM-18 | 351.10 | -- | 17.40 | 333.70 | 16.30 | 334.80 | 16.86 | 334.24 |
| TP-6 | 359.18 | -- | 22.56 | 336.62 | 21.65 | 337.53 | 22.12 | 337.06 |
| TP-7 ^(a) | 360.60 | 360.83 | 23.47 | 337.36 | 22.81 | 338.02 | 23.32 | 337.51 |
| TP-8 ^(b) | 362.14 | 361.82 | 24.48 | 337.34 | 23.54 | 338.28 | 23.98 | 337.84 |
| TP-11 | 364.51 | -- | 27.31 | 337.20 | 26.40 | 338.11 | 26.71 | 337.80 |
| OBG-17 | 351.96 | -- | 18.23 | 333.73 | 17.16 | 334.80 | 17.68 | 334.28 |
| OBG-18 | 349.14 | -- | 15.96 | 333.18 | 14.74 | 334.40 | 15.00 | 334.14 |

Notes:

feet msl - feet above mean sea level

feet bre - feet below reference elevation

(a) The stickup for TP-7 was damaged during site maintenance. It has been repaired and re-surveyed. The correct survey elevation is 360.83 feet msl as of October 2000.

(b) The stickup for TP-8 was damaged during site maintenance in October 2006. It was been repaired and re-surveyed in February 2007. The elevation is 361.82 feet msl.

(c) ERM-4 could not be gauged on 10/22/2014 as the manhole cover was under 6 inches of rainwater. The well was gauged on 10/30/2014.

NM - Not Measured

Table 2
Summary of Analytical Results for Ground Water Samples at UST No. 9
Former Appliance Park East Facility, Columbia, Maryland
November 2016

| Well ID | ERM-4 | ERM-6 | ERM-7 | ERM-18 | TP-6 | TP-7 | TP-8 | TP-11 | OBG-17 | OBG-18 |
|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Analytes (ug/L) | 11/1/16 | 11/1/16 | 11/1/16 | 11/1/16 | 11/1/16 | 11/1/16 | 11/1/16 | 11/1/16 | 11/1/16 | 11/1/16 |
| Benzene | <1 | <1 | <1 | <1 | <1 | <1<1 | 1.2 | <1 | <1 | <1 |
| Toluene | <1 | 1.1 | <1 | <1 | <1 | <1/<1 | 2.4 | <1 | <1 | <1 |
| Ethylbenzene | <1 | 120 | <1 | <1 | <1 | <1/<1 | <3 | <1 | <1 | <1 |
| Xylene | 3.7 | 220 | <3 | <3 | <3 | <3/<3 | 18.4 | <3 | <3 | <3 |
| MTBE | <1 | <1 | <1 | <1 | <1 | <1/<1 | <1 | <1 | <1 | <1 |
| Field Measurements | | | | | | | | | | |
| pH (standard units) | 5.38 | 6.11 | 5.18 | 7.14 | 6.06 | 6.22 | 5.78 | 5.13 | 7.45 | 7.5 |
| Conductivity* | 223 | 333 | 169 | 230 | 490 | 80 | 249 | 812 | 790 | 200 |
| Temperature (Celsius) | 14.73 | 16.21 | 14.23 | 15.5 | 13.9 | 14.9 | 13.69 | 13.6 | 15.8 | 16.4 |

Notes:

ug/L - micrograms per liter

MTBE - Methyl tertiary-butyl ether

* micromhos per second

< signifies not detected at the detection limit

(a) TP-170 is a blind field duplicate of TP-7

MCLs - Benzene 5 ug/L; Ethylbenzene 700 ug/L; Toluene 1,000 ug/L; Xylenes 10,000 ug/L.

Analyses performed by Pace Analytical Services, Inc. by EPA Method SW 846-8260 starting in 2014. Analyses prior to 2014 performed by Lancaster Laboratories, Inc. using EPA Method SW 846-8021B.

ERM-4 sampled on 10/30/14 and not on 10/22/14 when the other UST-9 monitoring wells were sampled due to its manhole cover being under 6 inches of rainwater on 10/22/14.

ATTACHMENT 2

To Semi-Annual Project Progress Report
RCRA Corrective Action Permit
No. MDD046279311

General Electric Co.
Former Appliance Park East Facility
Columbia, MD

Period 1 July 2016 to 31 December 2016

Findings Summary for Groundwater for RFI Units 2 and 7

FIGURE 1
PARCEL A-10 GROUNDWATER PUMP AND TREAT SYSTEM WELLS
FORMER APPLIANCE PARK EAST
COLUMBIA, MARYLAND

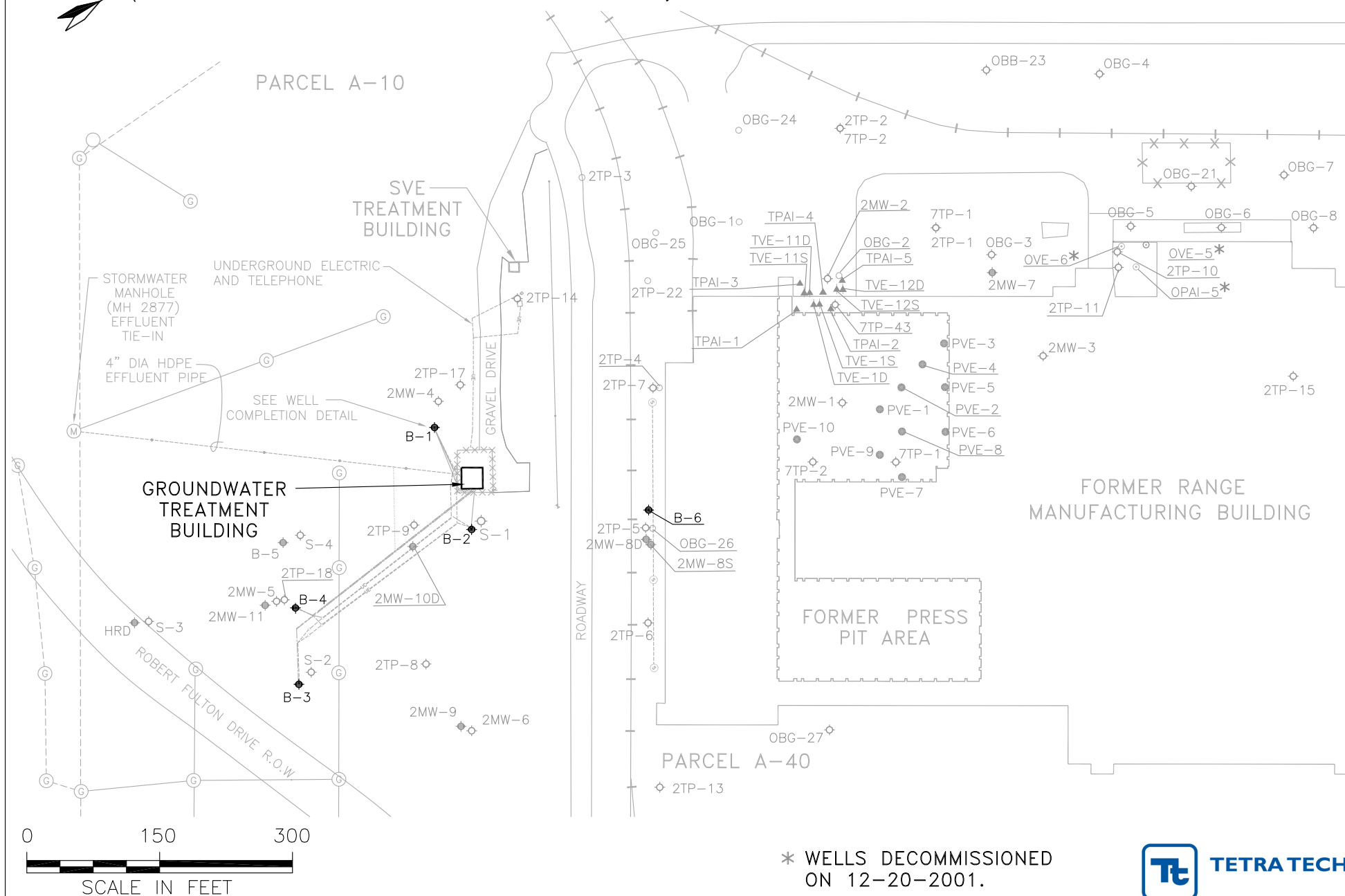


Figure 2
Groundwater Pump-and-Treat System Recovery
Former Appliance Park East Facility, Columbia, Maryland

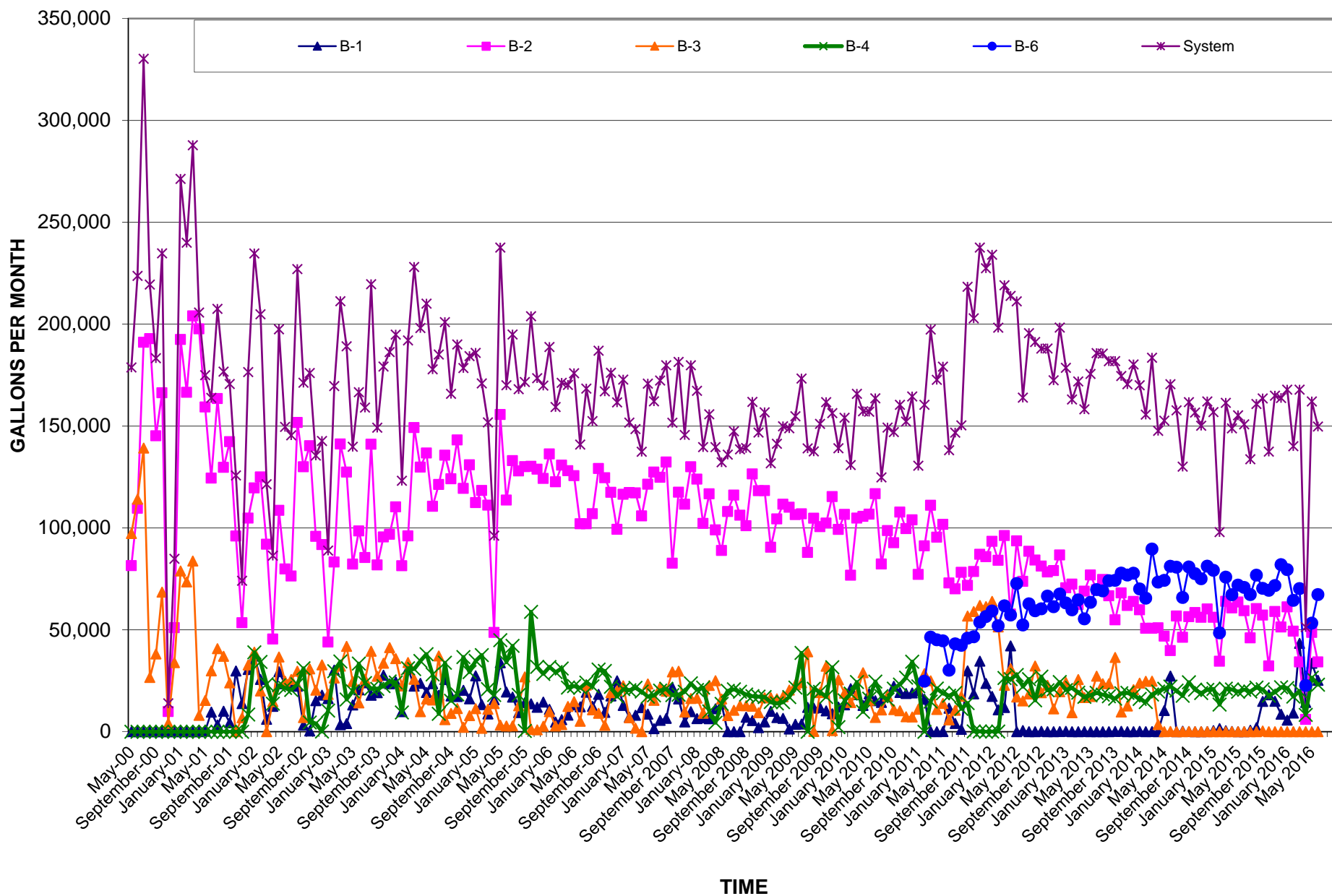


Figure 3
Groundwater Pump-and-Treat System Recovery - Trailing 12-Month Total Gallons
Former Appliance Park East Facility, Columbia, Maryland

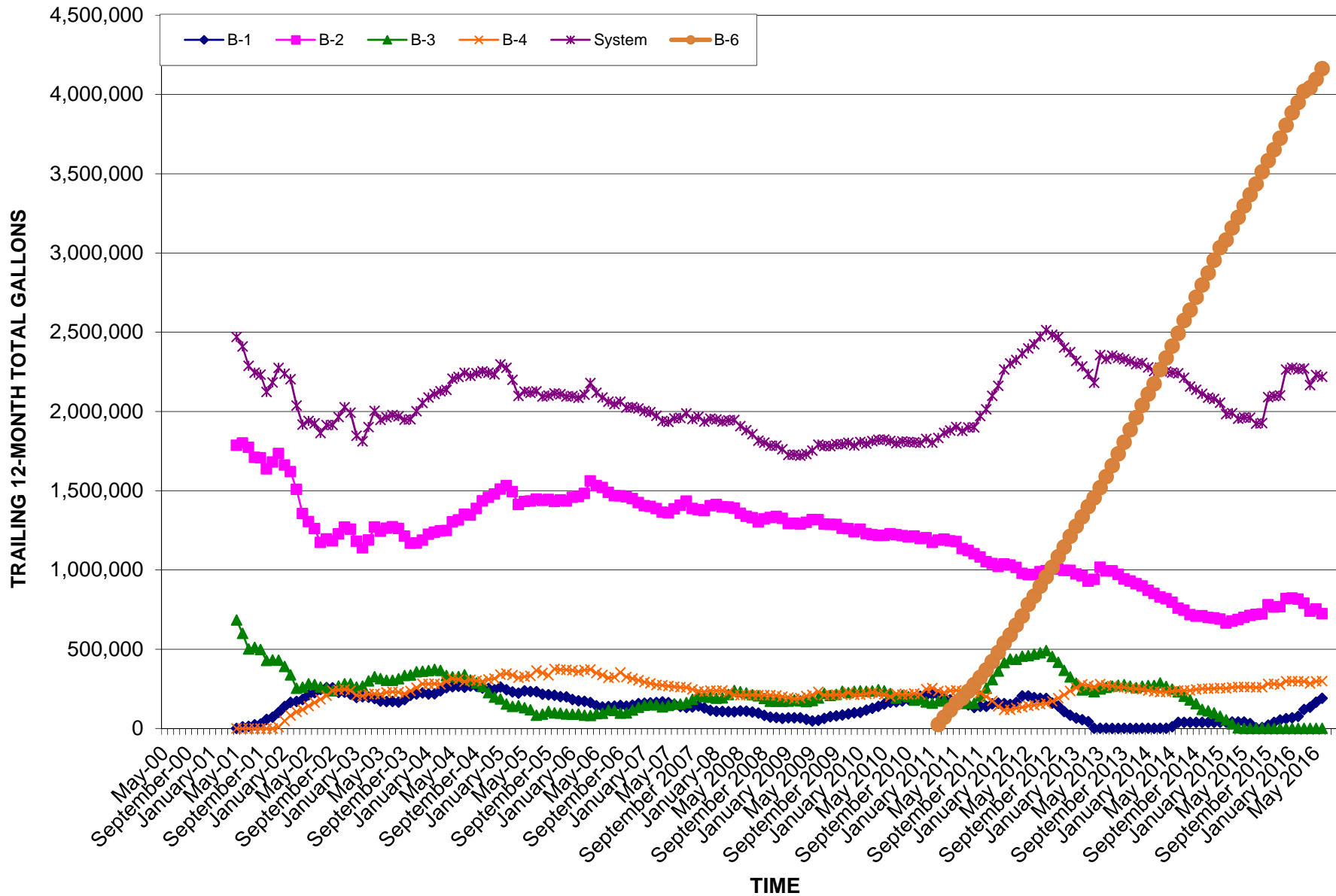
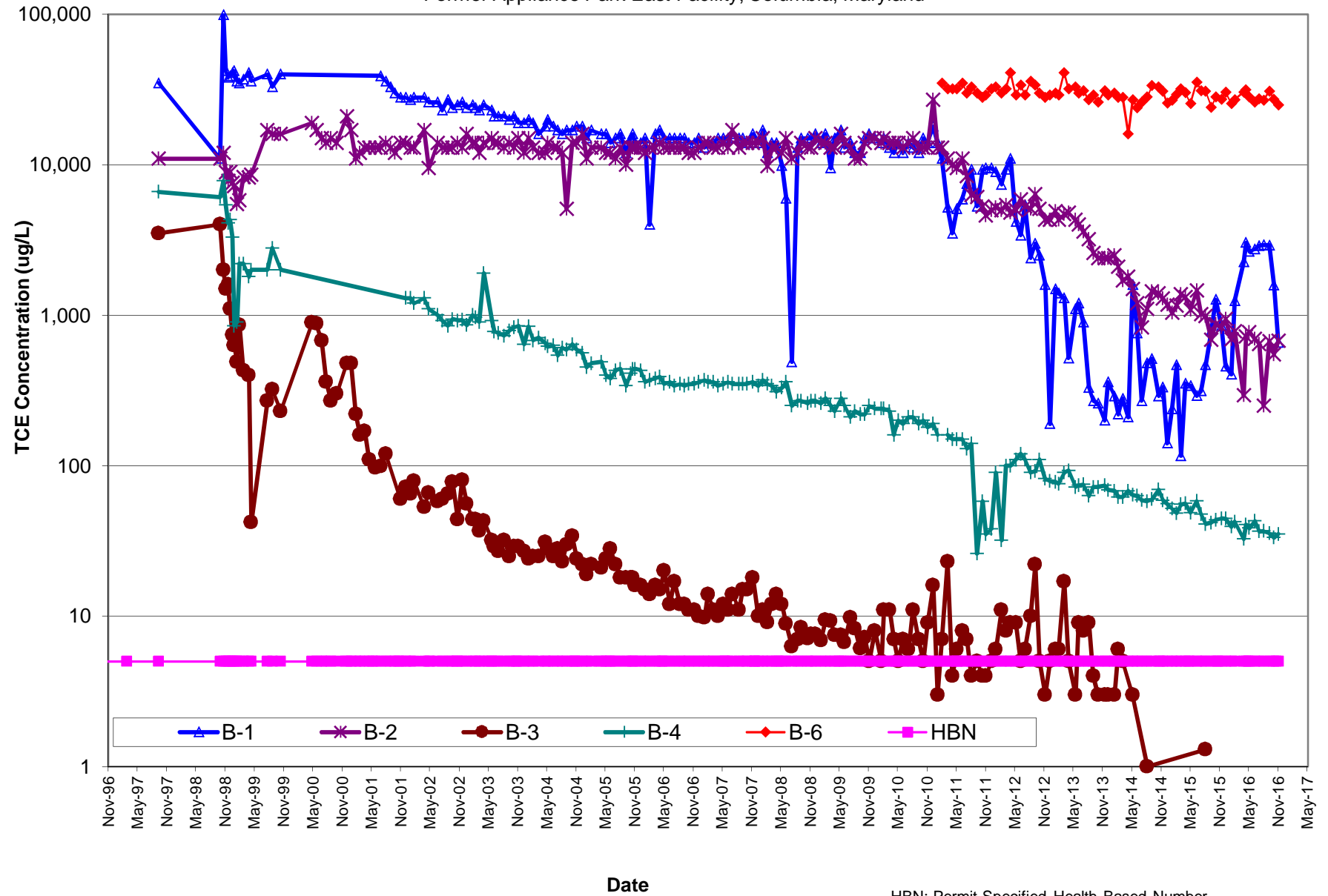
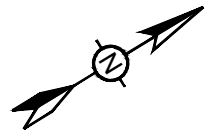


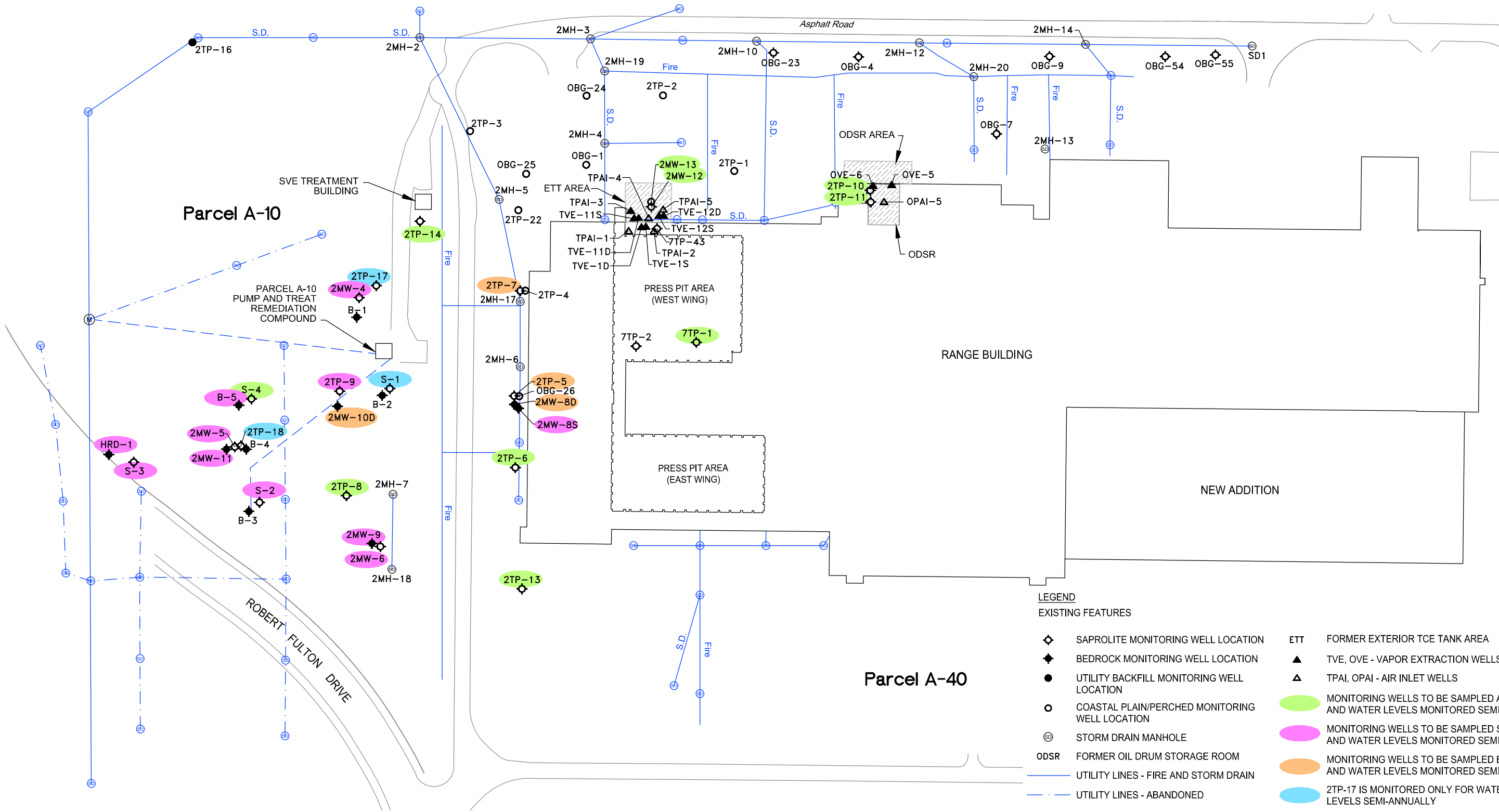
Figure 4
TCE Concentrations in Groundwater Recovery Wells
Former Appliance Park East Facility, Columbia, Maryland





Parcel A-43

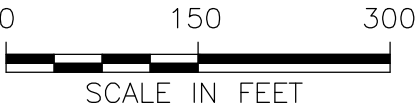
FIGURE 5
GROUNDWATER MONITORING WELLS
PARCELS A-10 AND A-40
FORMER APPLIANCE PARK EAST
COLUMBIA, MARYLAND

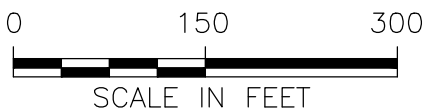


LEGEND

EXISTING FEATURES

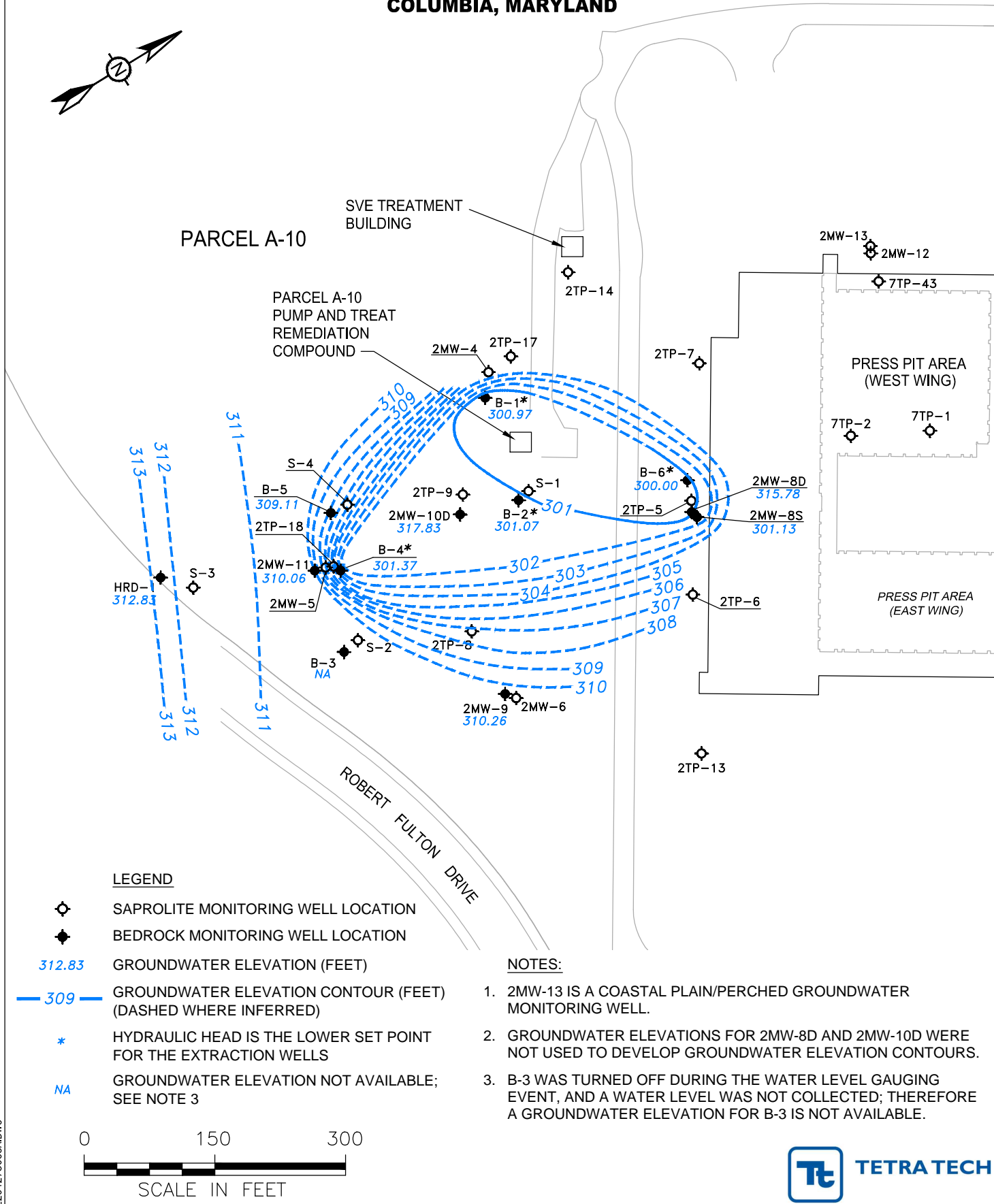
| | | | |
|--|--|--|---|
| | SAPROLITE MONITORING WELL LOCATION | | ETT FORMER EXTERIOR TCE TANK AREA |
| | BEDROCK MONITORING WELL LOCATION | | TVE, OVE - VAPOR EXTRACTION WELLS |
| | UTILITY BACKFILL MONITORING WELL LOCATION | | TPAI, OPAI - AIR INLET WELLS |
| | COASTAL PLAIN/PERCHED MONITORING WELL LOCATION | | MONITORING WELLS TO BE SAMPLED ANNUALLY AND WATER LEVELS MONITORED SEMI-ANNUALLY |
| | STORM DRAIN MANHOLE | | MONITORING WELLS TO BE SAMPLED SEMI-ANNUALLY AND WATER LEVELS MONITORED SEMI-ANNUALLY |
| | FORMER OIL DRUM STORAGE ROOM | | MONITORING WELLS TO BE SAMPLED BIENNIAL AND WATER LEVELS MONITORED SEMI-ANNUALLY |
| | UTILITY LINES - FIRE AND STORM DRAIN | | 2TP-17 IS MONITORED ONLY FOR WATER LEVELS SEMI-ANNUALLY |
| | UTILITY LINES - ABANDONED | | |





2204275035A.DWG

FIGURE 7
HYDRAULIC HEADS FOR PARCEL A-10 BEDROCK WELLS
NOVEMBER 3, 2016
FORMER APPLIANCE PARK EAST
COLUMBIA, MARYLAND



Parcel A-43



Figure 9
TCE Concentrations within Plume Core
Former Appliance Park East Facility
Columbia, Maryland

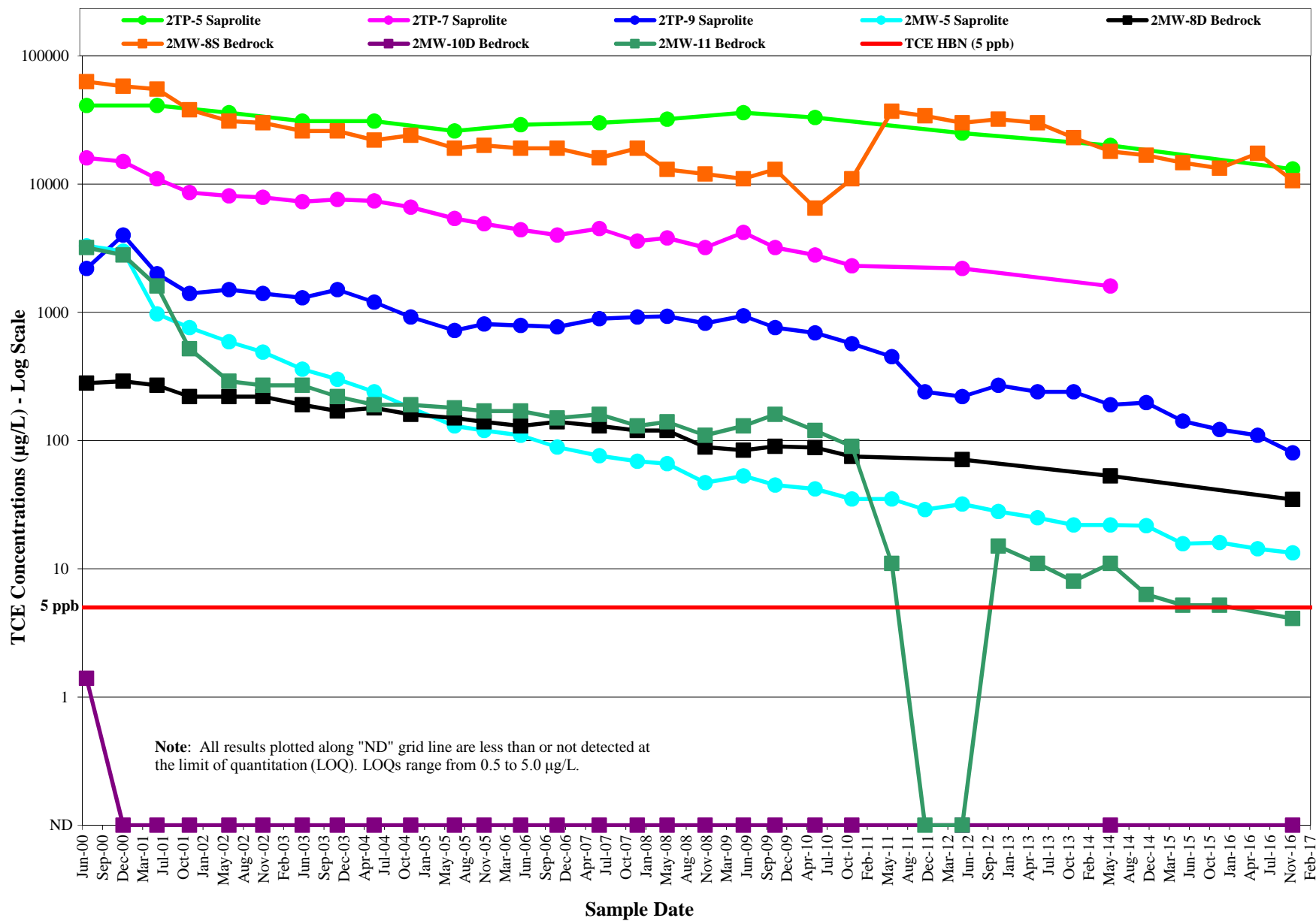


Figure 10
TCE Concentrations at Plume Toe and Cross-Gradient
Former Appliance Park East Facility
Columbia, Maryland

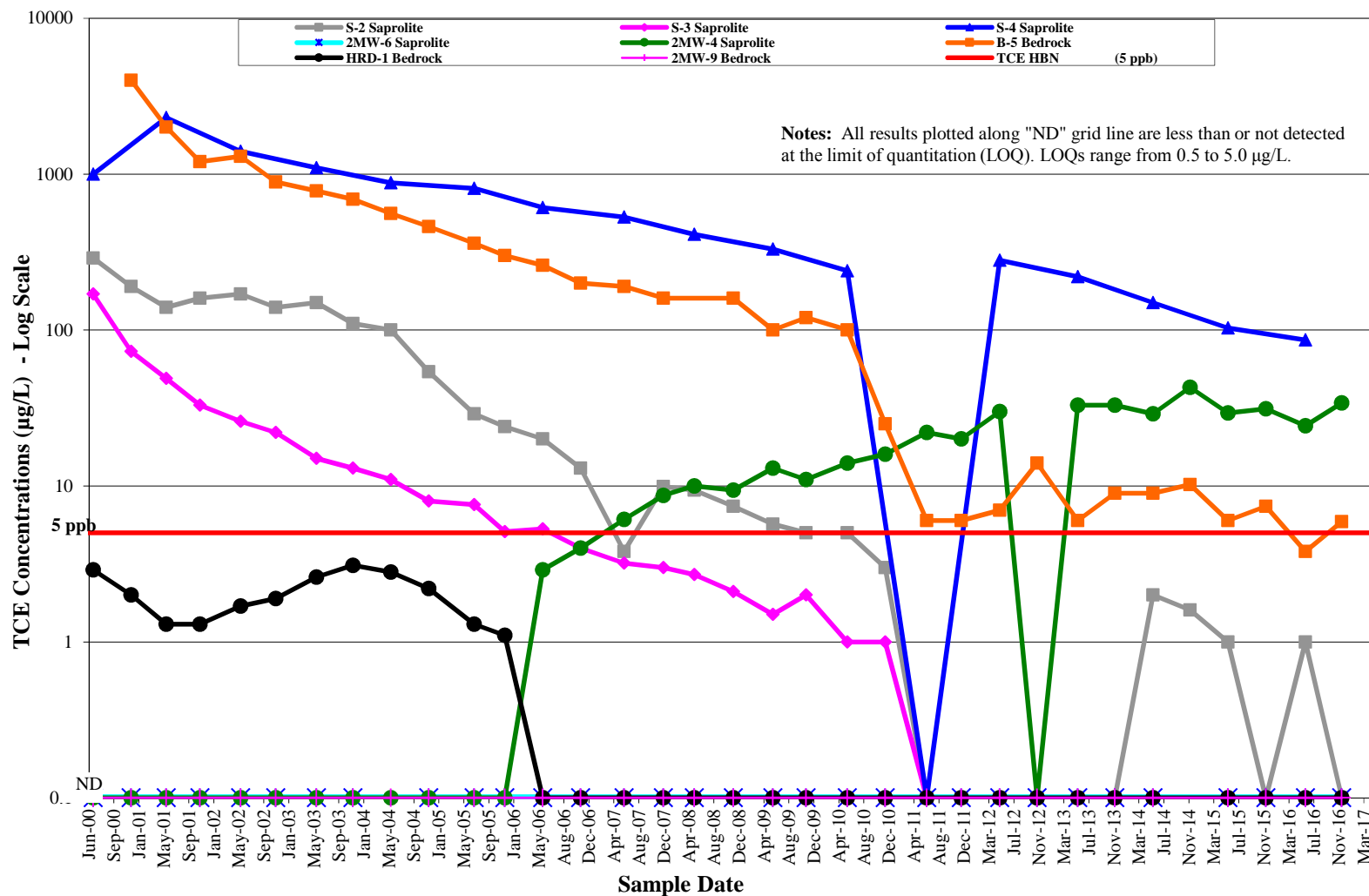


TABLE 1
Groundwater Elevations for Monitoring Wells at CMS Units 2 and 7
November 3, 2016
Former Appliance Park East Facility, Columbia, Maryland

| Well ID | Interpreted Lithology | Reference Point Elevation (ft > MSL) | Well Depth (ft BGS) | Well Screen Length (ft) | Well Screen Top (ft BGS) | Well Screen Bottom (ft BGS) | Screen Top Elevation (ft > MSL) | Screen Bottom Elevation (ft > MSL) | Sampling Frequency** | Water Level Monitoring Frequency | Depth to Water on November 3, 2016 (ft BRE) | Groundwater Elevation on November 3, 2016 (ft > MSL) |
|--------------------------------|---------------------------|--------------------------------------|---------------------|-------------------------|--------------------------|-----------------------------|---------------------------------|------------------------------------|----------------------|----------------------------------|---|--|
| SAPROLITE / WATER TABLE | | | | | | | | | | | | |
| 7TP-1 | Saprolite | 345.76 | 24 | 20 | 4 | 24 | 342 | 322 | Annually | Semi-Annually | Dry | Dry |
| 2TP-5 | Saprolite | 358.02 | 63 | 15 | 48 | 63 | 308.38 | 293.38 | Biennially | Semi-Annually | 56.98 | 301.04 |
| 2TP-6 | Saprolite | 358.79 | 50 | 15 | 35 | 50 | 321.41 | 306.41 | Annually | Semi-Annually | 43.25 | 315.54 |
| 2TP-7 | Saprolite | 358.76 | 59 | 15 | 44 | 59 | 313.16 | 298.16 | Biennially | Semi-Annually | 41.17 | 317.59 |
| 2TP-8 | Saprolite | 348.67 | 62 | 15 | 47 | 62 | 299.11 | 284.11 | Annually | Semi-Annually | 39.27 | 309.40 |
| 2TP-9 | Saprolite | 348.85 | 55 | 15 | 40 | 55 | 305.95 | 290.95 | Semi-Annually | Semi-Annually | 41.48 | 307.37 |
| 2TP-10 | Coastal Plain & Saprolite | 358.95 | 23 | 10 | 13 | 23 | 345 | 335 | Annually | Semi-Annually | 17.54 | 341.41 |
| 2TP-11 | Coastal Plain & Saprolite | 357.57 | 30 | 10 | 20 | 30 | 338 | 328 | Annually | Semi-Annually | 17.93 | 339.64 |
| 2TP-13 | Saprolite | 362.11 | 59 | 15 | 44 | 59 | 315.58 | 300.58 | Annually | Semi-Annually | 56.29 | 305.82 |
| 2TP-14 | Saprolite | 348.85 | 48 | 15 | 33 | 48 | 314.77 | 299.77 | Annually | Semi-Annually | 27.60 | 321.25 |
| 2TP-17 | Saprolite | 349.29 | 47 | 15 | 32 | 47 | 314.8 | 299.8 | None | Semi-Annually | 36.63 | 312.66 |
| 2TP-18 | Saprolite | 346.42 | 43 | 15 | 28 | 43 | 316.02 | 301.02 | None | Semi-Annually | 37.62 | 308.80 |
| 2MW-4 | Saprolite | 348.8 | 46 | 20 | 26 | 46 | 320.31 | 300.31 | Semi-Annually | Semi-Annually | 37.07 | 311.73 |
| 2MW-5 | Saprolite | 346.06 | 68 | 15 | 53 | 68 | 290.87 | 275.87 | Semi-Annually | Semi-Annually | 37.35 | 308.71 |
| 2MW-6 | Saprolite | 350.13 | 44 | 15 | 29 | 44 | 318.6 | 303.6 | Semi-Annually | Semi-Annually | 40.36 | 309.77 |
| 2MW-12 | Saprolite | 353.61 | 36 | 15.0 | 21.0 | 36.0 | 332.57 | 317.57 | Annually | Semi-Annually | 28.48 | 325.13 |
| 2MW-13 | Coastal Plain/Perched | 353.42 | 11 | 8 | 3 | 11 | 350.69 | 342.69 | Annually | Semi-Annually | 3.53 | 349.89 |
| S-1 | Saprolite | 349.94 | 41 | 30 | 11 | 41 | 336.9 | 306.9 | None | Semi-Annually | 43.23 | 306.71 |
| S-2 | Saprolite | 346.89 | 50 | 30 | 20 | 50 | 325.06 | 295.06 | Semi-Annually | Semi-Annually | 37.23 | 309.66 |
| S-3 | Saprolite | 347.69 | 50 | 30 | 20 | 50 | 325.78 | 295.78 | Semi-Annually | Semi-Annually | 36.08 | 311.61 |
| S-4 | Saprolite | 346.14 | 50 | 30 | 19 | 49 | 325.23 | 295.23 | Annually | Semi-Annually | 36.94 | 309.20 |
| BEDROCK | | | | | | | | | | | | |
| 2MW-8S | Bedrock | 359.24 | 128 | 20 | 108 | 128 | 248.8 | 228.8 | Semi-Annually | Semi-Annually | 58.11 | 301.13 |
| 2MW-9 | Bedrock | 349.45 | 93 | 20 | 73 | 93 | 274.47 | 254.47 | Semi-Annually | Semi-Annually | 39.19 | 310.26 |
| 2MW-11 | Bedrock | 345.54 | 120 | 20 | 100 | 120 | 243.61 | 223.61 | Semi-Annually | Semi-Annually | 35.48 | 310.06 |
| 2MW-8D | Bedrock | 359.09 | 208 | 15 | 193 | 208 | 163.43 | 148.43 | Biennially | Semi-Annually | 43.31 | 315.78 |
| 2MW-10D | Bedrock | 348.56 | 200 | 24 | 176 | 200 | 170.08 | 146.08 | Biennially | Semi-Annually | 30.73 | 317.83 |
| HRD-1 | Bedrock | 341.11 | 140 | 20 | 120 | 140 | 221.11 | 201.11 | Semi-Annually | Semi-Annually | 28.28 | 312.83 |
| B-5 | Bedrock | 345.99 | 140 | 86 | 54 | 140 | 290.08 | 204.08 | Semi-Annually | Semi-Annually | 36.88 | 309.11 |

NOTES:

BGS = below ground surface

ft = feet

BRE = below reference elevation

> MSL = above mean sea level

** Semi-annual frequency: May/June and November/December. Annual frequency: May/June. Biennial sampling: May/June of even years starting in 2012.

The low set points for the pump-and-treat system recovery (extraction) wells are: B-1: 300.97 ft MSL; B-2: 301.07 ft MSL; B-3: 306.43 ft MSL; B-4: 301.37 ft MSL; and B-6: 300.00 ft MSL.

TABLE 2
VOC Detections for CMS Units 2 and 7 Groundwater Monitoring
November 18, 2016
Former Appliance Park East Facility, Columbia, Maryland

| Well - Sample ID | Trichloroethene (ug/L) | Cis-1,2-dichloroethene (ug/L) | Trans-1,2-dichloroethene (ug/L) | 1,1-Dichloroethane (ug/L) | 1,1-Dichloroethene (ug/L) | Tetrachloroethene (ug/L) | Chloroform (ug/L) | 1,1,2-Trichloroethane (ug/L) | Vinyl Chloride (ug/L) |
|--------------------------------|------------------------|-------------------------------|---------------------------------|---------------------------|---------------------------|--------------------------|-------------------|------------------------------|-----------------------|
| Saprolite / Water Table | | | | | | | | | |
| 7TP-1 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| 2TP-5* | 13,100 | 333 | 8.4 | 6.7 | 13.7 | 3.8 | <1.0 | <1.0 | 5.7 |
| 2TP-6 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| 2TP-7* | 956 | 50.2 | <1.0 | <1.0 | 1.6 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2TP-8 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| 2TP-9 | 80.3 | 250 | 5.2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2TP-10 ^{CS} | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| 2TP-11 ^{CS} | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| 2TP-13 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| 2TP-14 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| 2MW-4 | 34.0 | 1.7 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2MW-5 | 13.3 | 6.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2MW-6 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2MW-12 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| 2MW-13 ^{CP} | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| S-2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| S-3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| S-4 | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Bedrock | | | | | | | | | |
| 2MW-8S | 10600 / 11,500 | 694 / 769 | 12.7 / 11.2 | 5.1 / 5.0 | 8.5 / 8.5 | 2.6 / 2.7 | <1.0 / <1.0 | <1.0 / <1.0 | 3.2 / 3.2 |
| 2MW-9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2MW-11 | 4.1 | 35.6 | 2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2MW-8D* | 34.7 | 1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2MW-10D* | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| HRD-1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| B-5 | 5.9 | 29.9 | 1.7 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Field Blank | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

NOTES:

ug/L = Micrograms per liter

/ = Duplicate samples

NR = well not sampled - not required for this sampling event

NSD = Not sampled due to well being dry or had insufficient volume of water

Starting in November 2009 samples analyzed using EPA Method 8260

MW-12, MW-13, 2TP-10, and 2TP-11 added to semi-annual sampling in June 2011

< = result is less than or not detected at this limit of quantitation

^{CS} Coastal Plain & Saprolite

^{CP} Coastal Plain/Perched Well

* Well on a biennial sampling frequency.

TABLE 3
Historical TCE Analytical Results for CMS Units 2 and 7 Groundwater Monitoring
Former Appliance Park East Facility, Columbia, Maryland

| Well - Sample ID | Well Depth (ft BGS) | Well Screen (ft BGS) | | 6/14/2007 | 12/20/2007 | 1/2008 | 5/16/2008 | 11/20/2008 | 5/29/2009 | 11/3/2009 | 5/21/2010 | 11/19/2010 | 6/6/2011 | 11/18/2011 |
|-------------------------|---------------------------|-------------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Top (ft BGS) | Bottom (ft BGS) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) |
| Saprolite / Water Table | | | | | | | | | | | | | | |
| 7TP-1 | 24 | 4.0 | 24.0 | NC | NC | NC | NC | NC | NC | NC | NC | NC | NSD | NR |
| 2TP-5* | 63.0 | 48.0 | 63.0 | 30,000 | NR | NC | 32,000 | NR | 36,000 | NR | 33,000 | NR | NR | NR |
| 2TP-6 | 50.0 | 35.0 | 50.0 | NSD | <2.0 | NC | NSD | NSD | NSD | NSD | NSD | <1.0 | NSD | NR |
| 2TP-7* | 59.0 | 44.0 | 59.0 | 4,500 | 3,600 | NC | 3,800 | 3,200 | 4,200 | 3,200 | 2,800 | 2,300 | NR | NR |
| 2TP-8 | 62.0 | 47.0 | 62.0 | <2.0 | <2.0 | NC | <2.0 | <0.5 | <0.5 | <1.0 | <1.0 | <1.0 | <5.0 | NR |
| 2TP-9 | 55.0 | 40.0 | 55.0 | 890 | 920 | NC | 930 | 820 | 940 | 760 | 690 | 570 | 450 | 240 |
| 2TP-10 ^{CS} | 21.9 | 13.0 | 23.0 | NC | 50,000 | NC | NC | NC | NC | NC | NC | NC | 68,000 | NR |
| 2TP-11 ^{CS} | 30.0 | 19.2 | 30.0 | NC | 3,200 | NC | NC | NC | NC | NC | NC | NC | 5,400 | NR |
| 2TP-13 | 59.0 | 44.0 | 59.0 | <2.0 | <2.0 | NC | <2.0 | 0.7 | 0.5 | <1.0 | <1.0 | <1.0 | 7.0 | NR |
| 2TP-14 | 58.0 | 43.0 | 58.0 | 5.4 | 4.6 | NC | 4.4 | 3.6 | 3.1 | 2.0 J | 3.0 J | 4.0 J | <5.0 | NR |
| 2MW-4 | 46.0 | 26.0 | 46.0 | 6.1 | 8.7 | NC | 10.0 | 9.4 | 13.0 | 11.0 | 14.0 | 16 | 22/22 | 20 |
| 2MW-5 | 68.0 | 53.0 | 68.0 | 76 | 69 | NC | 66 | 47 | 53 | 45 | 42 | 35 | 35 | 29 |
| 2MW-6 | 44.0 | 29.0 | 44.0 | <2.0 | <2.0 | NC | <2.0 | <0.5 | <0.5 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 |
| 2MW-12 | 34.9 | 19.9 | 34.9 | NA | NC | 890 | NC | NC | NC | NC | NC | NC | 1,900 | NR |
| 2MW-13 ^{CP} | 11.0 | 3.0 | 11.0 | NA | NC | 8.1 | NC | NC | NC | NC | NC | NC | 21 | NR |
| S-2 | 50.0 | 20.0 | 50.0 | 4 | 10 | NC | 9 | 7 | 6 | 5.0 J | 5.0 J | 3.0 J | <5.0 | <5.0 |
| S-3 | 50.0 | 20.0 | 50.0 | 3.2 | 3.0 | NC | 2.7 | 2.1 | 1.5 | 2.0 J | 1.0 J | 1.0 J | <5.0 | <5.0 |
| S-4 | 50.0 | 20.0 | 50.0 | 530 | NR | NC | 410 | NR | 330 | NR | 240 | NR | <5.0 | NR |
| Bedrock | | | | | | | | | | | | | | |
| 2MW-8S | 128.0 | 108.0 | 128.0 | 16,000 | 19,000 | NC | 13,000 | 12,000 | 11,000 | 13,000 | 6,500 | 11,000 | 37,000 | 34,000/33,000 |
| 2MW-9 | 93.0 | 73.0 | 93.0 | <2.0 | <2.0 | NC | <2.0 | <0.5 | <0.5 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 |
| 2MW-11 | 120.0 | 100.0 | 120.0 | 160 | 130 | NC | 140 | 110 | 130 | 160 | 120 | 90 | 11 | <5.0 |
| 2MW-8D* | 208.0 | 193.0 | 208.0 | 130 | 120 | NC | 120 | 89 | 84 | 90 | 88 | 75 | NR | NR |
| 2MW-10D* | 200.0 | 176.0 | 200.0 | <2.0 | <2.0 | NC | <2.0 | <0.5 | <0.5 | <1.0 | <1.0 | <1.0 | NR | NR |
| HRD-1 | 140.0 | 120.0 | 140.0 | <2.0 | <2.0 | NC | <2.0 | <0.5 | <0.5 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 |
| B-5 | 140.0 | 54.0 | 140.0 | 190 | 160 | NC | NS | 160 E | 100 | 120 | 100 | 25 | 6 | 6 |
| Field Blank | - | - | - | <2.0 | <2.0 | NC | <2.0 | <0.5 | <0.5 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 |

NOTES:

ug/L = Micrograms per liter
 BGS = Below ground surface
^{CS} Coastal Plain & Saprolite
^{CP} Coastal Plain/Perched Well
 / = Duplicate samples
 TCE = Trichloroethene
 NC = Not collected
 NA = Not available

NR = Not required for this sampling event
 NS = Not sampled unable to retrieve passive bag sampler
 NSD = Not sampled due to insufficient volume of water in well
 < = result is less than or not detected at this limit of quantitation
 MW-12, MW-13, 2TP-10, and 2TP-11 added to semi-annual sampling in June 2011
 Starting in November 2009 samples analyzed using EPA Method 8260
 * Well on biennial sampling frequency
 Table presents concentrations from 2007 to the present

TABLE 3
Historical TCE Analytical Results for CMS Units 2 and 7 Groundwater Monitoring
Former Appliance Park East Facility, Columbia, Maryland

| Well - Sample ID | Well Depth (ft BGS) | Well Screen (ft BGS) | | 5/21/2012 | 11/16/2012 | 5/30/2013 | 11/25/2013 | 5/27/2014 | 11/21/2014 | 5/22/2015 | 11/20/2015 | 5/27/2016 | 11/18/2016 |
|-------------------------|---------------------------|-------------------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------------|-----------------|
| | | Top (ft BGS) | Bottom (ft BGS) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) | TCE (µg/L) |
| Saprolite / Water Table | | | | | | | | | | | | | |
| 7TP-1 | 24 | 4.0 | 24.0 | NSD | NR | NSD | NR | NSD | NR | NSD | NR | NR | NR |
| 2TP-5* | 63.0 | 48.0 | 63.0 | 25,000 | NR | NR | NR | 20,000 | NR | NR | NR | NR | 13,100 |
| 2TP-6 | 50.0 | 35.0 | 50.0 | NSD | NR | NSD | NR | NSD | NR | <1.0 | NR | NR | NR |
| 2TP-7* | 59.0 | 44.0 | 59.0 | 2,200 | NR | NR | NR | 1,600 | NR | NR | NR | NR | 956 |
| 2TP-8 | 62.0 | 47.0 | 62.0 | <5.0 | NR | <5.0 | NR | <5.0 | NR | <1.0 | NR | NR | NR |
| 2TP-9 | 55.0 | 40.0 | 55.0 | 220 | 270 | 240 | 240 | 190 | 198 | 142 | 122 | 122 | 80.3 |
| 2TP-10 ^{CS} | 21.9 | 13.0 | 23.0 | 58,000 | NR | 53,000 | NR | 54,000 | NR | 55,300 | NR | NR | NR |
| 2TP-11 ^{CS} | 30.0 | 19.2 | 30.0 | 7,800 | NR | 6,400 | NR | 7,000 | NR | 7,240 | NR | NR | NR |
| 2TP-13 | 59.0 | 44.0 | 59.0 | 10 | NR | 10 | NR | 9 | NR | 8.9 | NR | NR | NR |
| 2TP-14 | 58.0 | 43.0 | 58.0 | <5.0 | NR | <5.0 | NR | <5.0 | NR | 5.7 | NR | NR | NR |
| 2MW-4 | 46.0 | 26.0 | 46.0 | 30 | <5.0 | 33 | 33 | 29 | 33 | 29.4 | 31.3 | 31.3 | 34.0 |
| 2MW-5 | 68.0 | 53.0 | 68.0 | 32 | 28 | 25 | 22 | 22 | 21.7 | 15.7 | 16 | 16 | 13.3 |
| 2MW-6 | 44.0 | 29.0 | 44.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2MW-12 | 34.9 | 19.9 | 34.9 | 2,000 | NR | 1,200 | NR | 1,000 | NR | 292 | NR | NR | NR |
| 2MW-13 ^{CP} | 11.0 | 3.0 | 11.0 | 9 | NR | 13 | NR | 11 | NR | 11.8 | NR | NR | NR |
| S-2 | 50.0 | 20.0 | 50.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 1.6 | 1.0 | <1.0 | <1.0 | <1.0 |
| S-3 | 50.0 | 20.0 | 50.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| S-4 | 50.0 | 20.0 | 50.0 | 280 | NR | 220 | NR | 150 | NR | 103 | NR | NR | NR |
| Bedrock | | | | | | | | | | | | | |
| 2MW-8S | 128.0 | 108.0 | 128.0 | 29,000/30,000 | 30,000/32,000 | 28,000/30,000 | 23,000/23,000 | 18,000/18,000 | 14,700/16,800 | 14,700/13,600 | 13,300 / 13,300 | 13,300 / 13,300 | 10,600 / 11,500 |
| 2MW-9 | 93.0 | 73.0 | 93.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2MW-11 | 120.0 | 100.0 | 120.0 | <5.0 | 15 | 11 | 8 | 11 | 6.3 | 5.2 | 5.2 | 5.2 | 4.1 |
| 2MW-8D* | 208.0 | 193.0 | 208.0 | 71 | NR | NR | NR | 53 | NR | NR | NR | NR | 34.7 |
| 2MW-10D* | 200.0 | 176.0 | 200.0 | <5.0 | NR | NR | NR | <5.0 | NR | NR | NR | NR | <1.0 |
| HRD-1 | 140.0 | 120.0 | 140.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| B-5 | 140.0 | 54.0 | 140.0 | 7 | 14 | 6 | 9 | 9 | 10.2 | 6 | 7.4 | 7.4 | 5.9 |
| Field Blank | - | - | - | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

NOTES:

ug/L = Micrograms per liter
BGS = Below ground surface
^{CS} Costal Plain & Saprolite
^{CP} Coastal Plain/Perched Well
/ = Duplicate samples
TCE = Trichloroethene
NC = Not collected
NA = Not available

NR = Not required for this sampling event
NS = Not sampled unable to retrieve passive bag sampler
NSD = Not sampled due to insufficient volume of water in well
< = result is less than or not detected at this limit of quantitation
MW-12, MW-13, 2TP-10, and 2TP-11 added to semi-annual sampling in June 2011
Starting in November 2009 samples analyzed using EPA Method 8260
* Well on biennial sampling frequency
Table presents concentrations from 2007 to the present

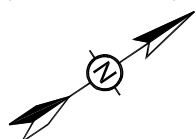
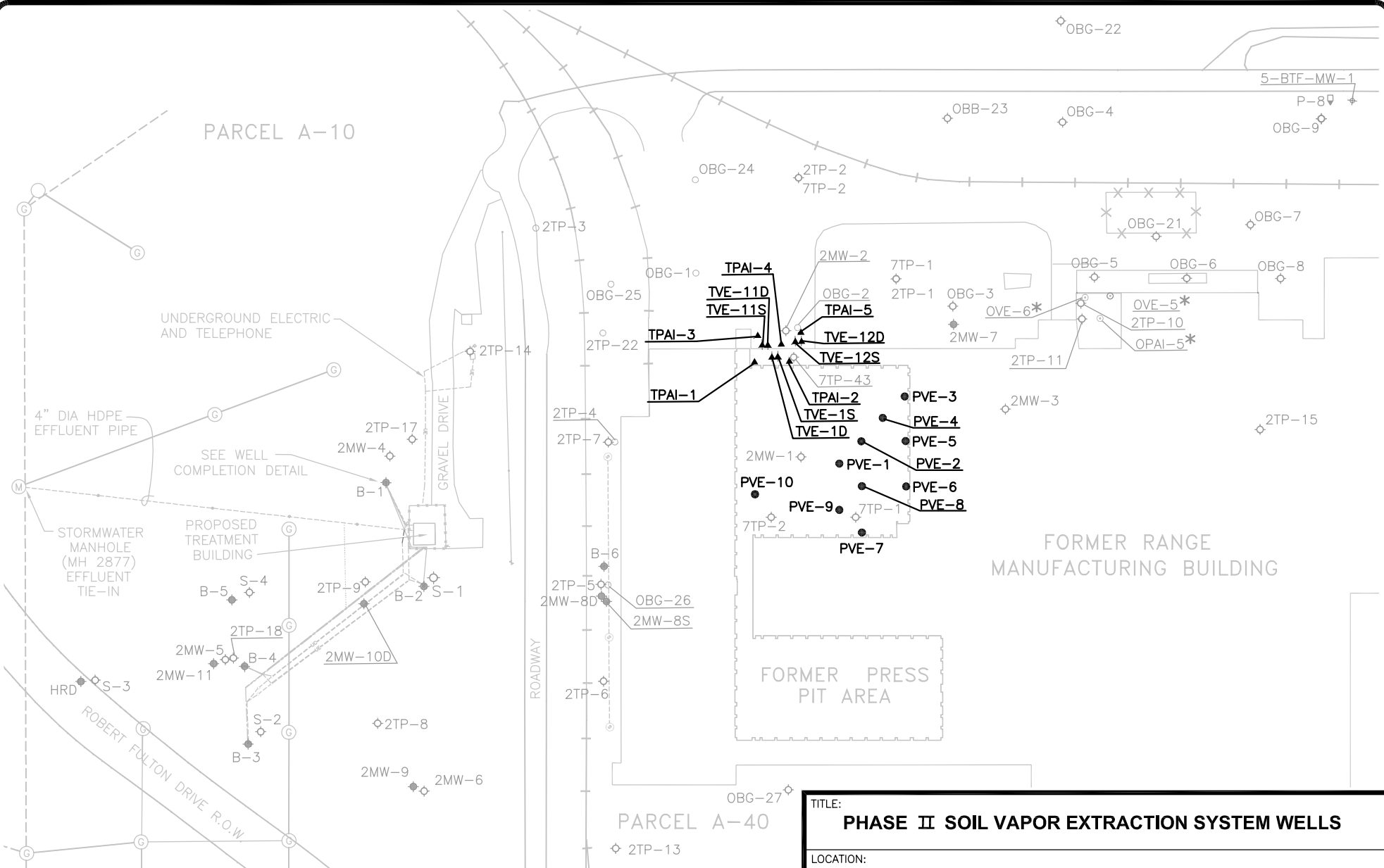
ATTACHMENT 3

To Semi-Annual Project Progress Report
RCRA Corrective Action Permit
No. MDD046279311

General Electric Co.
Former Appliance Park East Facility
Columbia, MD

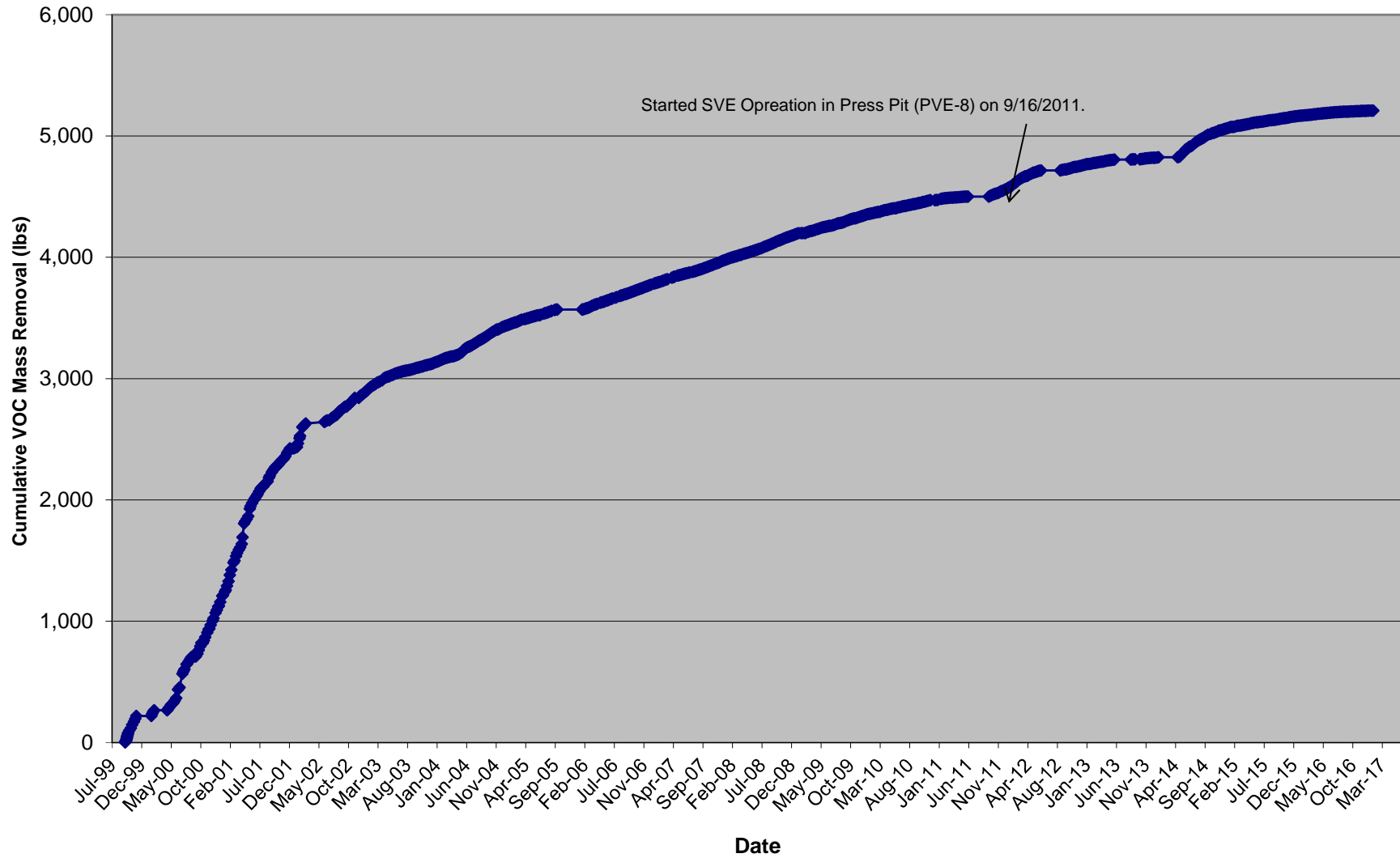
Period 1 July 2016 to 31 December 2016

Findings Summary for the Phase II SVE System at RFI Units 2 and 7

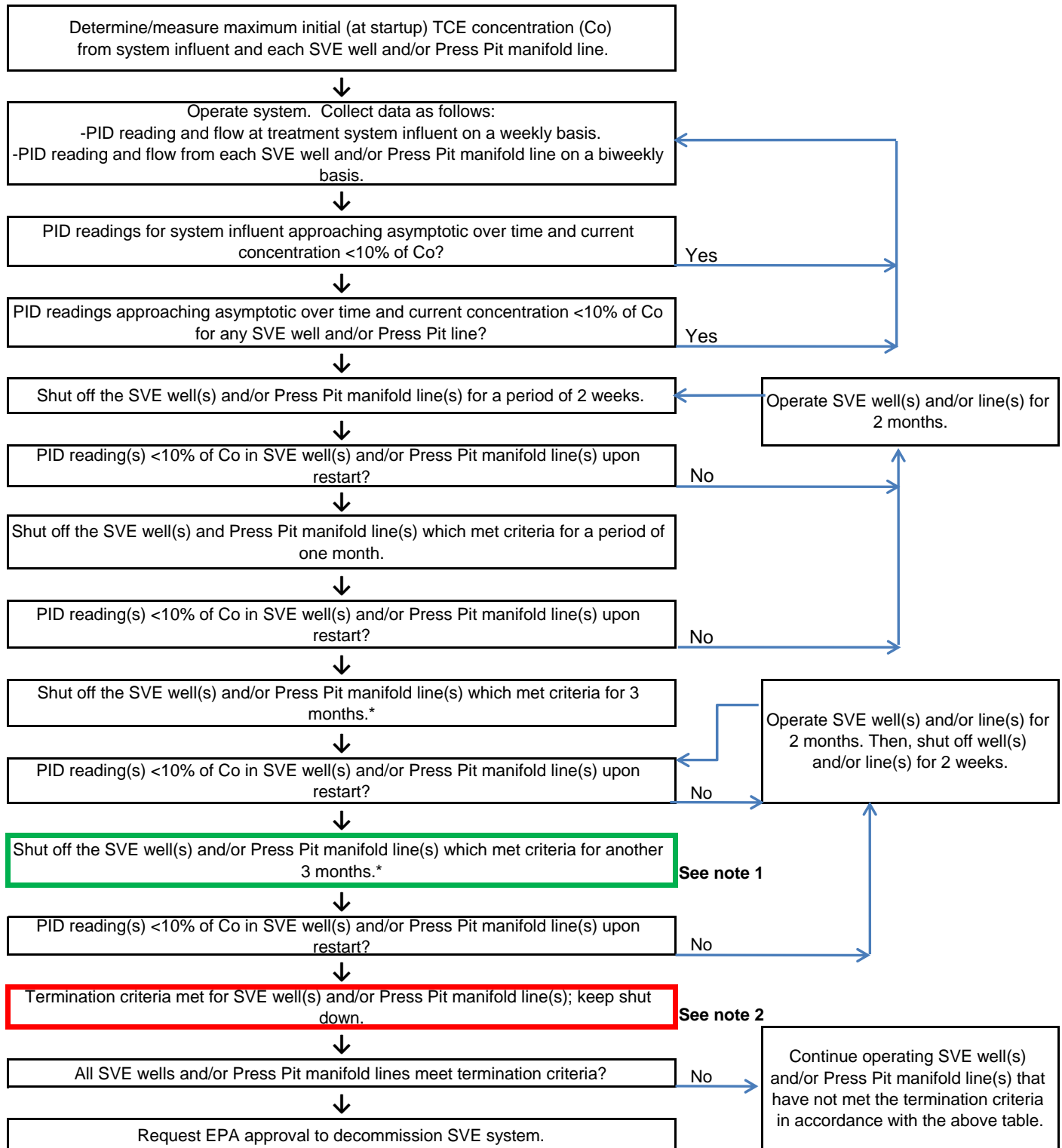


| | | |
|---|----------|-------------|
| TITLE: PHASE II SOIL VAPOR EXTRACTION SYSTEM WELLS | | |
| LOCATION: Former Appliance Park East Facility, Columbia, Maryland | | |
|  TETRA TECH GEO | APPROVED | BC |
| | DRAFTED | CP |
| | PROJECT# | 117-2204200 |
| | DATE | 8-25-11 |
| FIGURE | | 1 |

Phase II Soil Vapor Extraction System VOC Mass Removal
Former Appliance Park East Facility, Columbia, Maryland



Phase II Soil Vapor Extraction System Termination Criteria
STATUS AS OF DECEMBER 2016
Former GE Appliance Park East Facility, Columbia, Maryland



NOTES

1. Press Pit manifold lines PMVE-2 and PMVE-4 turned off on 7/22/16 to start shutdown testing.
2. SVE wells TVE-1S, TVE-1D, TVE-11D, and TVE-12D met termination criteria in June 2016 and will remain off.

ATTACHMENT 4

To Semi-Annual Project Progress Report
RCRA Corrective Action Permit
No. MDD046279311

General Electric Co.
Former Appliance Park East Facility
Columbia, MD

Period 1 July 2016 to 31 December 2016

**Findings Summary for
Warehouse Building Oil/Water Separator and
Acid Neutralization Units
RFI Unit 6**

FIGURE 1

GROUND WATER ELEVATION CONTOUR MAP

29 NOVEMBER 2012

RFI UNIT #6

GE - FORMER APPLIANCE PARK EAST

COLUMBIA, MARYLAND



- LEGEND**
- RAILROAD
 - MONITORING WELL
 - TEMPORARY PIEZOMETER (REMOVED)
 - 350.11 GROUND WATER ELEVATION (FEET)
 - 350 — GROUND WATER ELEVATION CONTOUR (FEET)
(DASHED WHERE INFERRED)
 - GROUND WATER FLOW DIRECTION
 - 170 TCE CONCENTRATION (ug/L)
 - EXTENT OF TCE
 - ND NON-DETECT

NOTE:
COULD NOT LOCATE OBG-67 AND OBG-68.

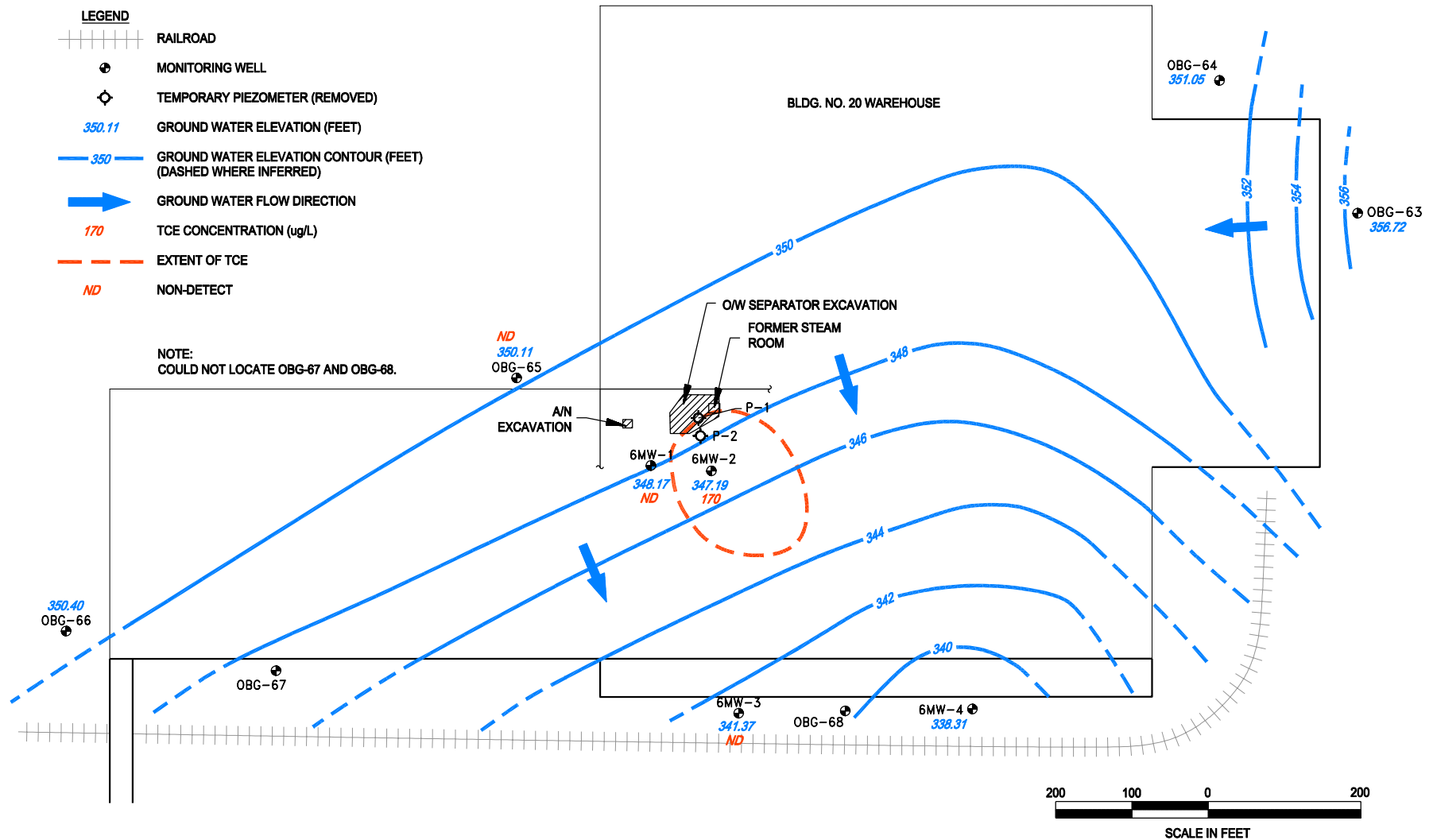


Table 1 Summary of Ground Water Elevations
RFI Unit 6
Former Appliance Park East, Columbia, Maryland

| Date | | 17-Oct-94* | | 17-Jan-95* | | 18-Apr-95* | | 18-Jul-95* | | 16-May-02 | | 14-Nov-07 | | 29-Nov-12 | |
|---------|-------------------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|----------------|---------------------|
| Well ID | Reference Elevation Feet, MSL | Ground Water | | Ground Water | | Ground Water | | Ground Water | | Ground Water | | Ground Water | | Ground Water | |
| | | Depth to Water | Elevation Feet, MSL | Depth to Water | Elevation Feet, MSL | Depth to Water | Elevation Feet, MSL | Depth to Water | Elevation Feet, MSL | Depth to Water | Elevation Feet, MSL | Depth to Water | Elevation Feet, MSL | Depth to Water | Elevation Feet, MSL |
| 6MW-1 | 359.70 | 10.99 | 348.71 | 11.41 | 348.29 | 11.37 | 348.33 | 11.05 | 348.65 | 12.69 | 347.01 | 12.08 | 347.62 | 11.53 | 348.17 |
| 6MW-2 | 359.49 | 11.58 | 347.91 | 12.04 | 347.45 | 11.93 | 347.56 | 11.55 | 347.94 | 13.42 | 346.07 | 12.68 | 346.81 | 12.30 | 347.19 |
| 6MW-3 | 355.21 | 11.91 | 343.30 | 12.00 | 343.21 | 12.17 | 343.04 | 11.77 | 343.44 | 17.14 | 338.07 | 14.76 | 340.45 | 13.84 | 341.37 |
| 6MW-4 | 355.17 | 10.81 | 344.36 | 10.52 | 344.65 | NM | -- | 10.59 | 344.58 | 15.83 | 339.34 | 16.55 | 338.62 | 16.86 | 338.31 |
| OBG-63 | 361.58 | 9.61 | 351.97 | 8.33 | 353.25 | 9.22 | 352.36 | 9.35 | 352.23 | 5.60 | 355.98 | 5.61 | 355.97 | 4.86 | 356.72 |
| OBG-64 | 362.40 | 11.33 | 351.07 | 10.52 | 351.88 | 11.01 | 351.39 | 11.00 | 351.40 | 11.51 | 350.89 | 11.99 | 350.41 | 11.35 | 351.05 |
| OBG-65 | 362.61 | 11.97 | 350.64 | 11.83 | 350.78 | 12.30 | 350.31 | 12.12 | 350.49 | 13.33 | 349.28 | 13.41 | 349.20 | 12.50 | 350.11 |
| OBG-66 | 361.99 | 11.81 | 350.18 | 12.57 | 349.42 | 12.42 | 349.57 | 11.95 | 350.04 | 13.54 | 348.45 | 13.37 | 348.62 | 11.59 | 350.40 |
| OBG-67 | 355.05 | 5.44 | 349.61 | 5.55 | 349.50 | 5.38 | 349.67 | 4.36 | 350.69 | 6.69 | 348.36 | NM | -- | NM | -- |
| OBG-68 | 355.54 | 12.05 | 343.49 | 12.27 | 343.27 | 12.50 | 343.04 | 11.93 | 343.61 | NM | -- | NM | -- | NM | -- |

Notes:

* - Data presented in *Addendum to the RCRA Facility Investigation Report for RFI Unit 6*, dated 2 August 1995

Reference elevation for all wells is top of PVC casing

MSL - Mean Sea Level

NM - Not measured, well was inaccessible

Table 2 Detected Analytes for Ground Water Samples
RFI Unit 6
Former Appliance Park East, Columbia, Maryland

| Sample Number | | | 6-MW-1 | | | | 6-MW-2 | | | | 6-MW-3 | | | | 6-MW-4 | | OBG-65 | | | | OBG-67 | OBG-68 |
|---------------------------------------|-----|-----|----------|-----------|------------|------------|----------|-----------|------------|------------|----------|-----------|------------|------------|----------|-----------|----------|-----------|------------|------------|----------|----------|
| Sample Collection Date | | | 8/22/94* | 5/16/2002 | 11/14/2007 | 11/29/2012 | 8/23/94* | 5/16/2002 | 11/14/2007 | 11/29/2012 | 8/23/94* | 5/16/2002 | 11/14/2007 | 11/29/2012 | 8/23/94* | 5/16/2002 | 8/22/94* | 5/16/2002 | 11/14/2007 | 11/29/2012 | 8/23/94* | 8/23/94* |
| Analyte | HBN | PQL | | | | | | | | | | | | | | | | | | | | |
| Field Parameters | | | | | | | | | | | | | | | | | | | | | | |
| pH (standard units) | -- | -- | 6.9 | 6.4 | 5.9 | 6.3 | 6.3 | 6.2 | 6.7 | 6.0 | 6 | 6.6 | 6.8 | 6.7 | 5.4 | 6.2 | 6.2 | 6.4 | 6.2 | 6.0 | 6.8 | 6.7 |
| Conductivity (mS/cm) | -- | -- | NA | 0.169 | 0.238 | 0.116 | NA | 0.203 | 0.660 | 0.079 | NA | 0.771 | 0.616 | 0.298 | NA | 0.908 | NA | 0.213 | 0.315 | 0.090 | NA | NA |
| Temperature (°C) | -- | -- | NA | 19.8 | 17.4 | 19.1 | NA | 19.7 | 16.5 | 19.5 | NA | 16.7 | 16.6 | 17.7 | NA | 16.5 | NA | 15.9 | 15.7 | 16.1 | NA | NA |
| D.O. (mg/L) | -- | -- | NA | 2.83 | NA | NA | NA | 0.84 | NA | NA | NA | 2.21 | NA | NA | NA | 4.59 | NA | 4.63 | NA | NA | NA | NA |
| Permit List 4 Volatiles (µg/L) | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | 7 | 5 | -- | < 5 | < 5 | < 5 | -- | 30 | 56 | 85 | -- | < 5 | < 5 | < 5 | -- | < 5 | -- | < 5 | < 5 | < 5 | -- | -- |
| cis-1,2-Dichloroethene | -- | 5 | NA | < 5 | < 5 | < 5 | NA | 82 | 89 | 97 | NA | < 5 | < 5 | < 5 | NA | < 5 | NA | < 5 | < 5 | < 5 | NA | NA |
| 1,2-Dichloroethene (total) | 100 | 5 | -- | NA | NA | NA | 11 | NA | NA | NA | -- | NA | NA | NA | -- | NA | -- | NA | NA | NA | -- | -- |
| Trichloroethene | 5 | 5 | -- | < 5 | < 5 | < 5 | 24 | 110 | 130 | 170 | -- | < 5 | < 5 | < 5 | -- | < 5 | -- | < 5 | < 5 | < 5 | -- | -- |
| Benzene | 5 | 5 | -- | < 5 | < 5 | < 5 | 2 | < 5 | < 5 | < 5 | -- | < 5 | < 5 | < 5 | -- | < 5 | -- | < 5 | < 5 | < 5 | -- | -- |
| Tetrachloroethene | 5 | 5 | -- | < 5 | < 5 | < 5 | -- | 6 | 18 | 44 | -- | < 5 | < 5 | < 5 | -- | < 5 | -- | < 5 | < 5 | < 5 | -- | -- |
| Inorganic Parameters (µg/L) | | | | | | | | | | | | | | | | | | | | | | |
| Antimony | 10 | 30 | -- | < 5 | NA | NA | -- | < 5 | NA | NA | -- | < 5 | NA | NA | -- | < 5 | -- | < 5 | NA | NA | 2.3 | -- |
| Chromium | 100 | 10 | 2.2 | < 3 | NA | NA | 0.44 | < 3 | NA | NA | -- | < 3 | NA | NA | 2 | < 3 | -- | < 3 | NA | NA | 7.9 | 3.8 B |

Notes:

mg/L - milligrams per liter

µg/L - micrograms per liter

HBN - Health Based Number

PQL - Practical Quantitation Limit

* - Data presented in *RCRA Facility Investigation Report for RFI Unit 6*, dated 3 March 1995

< 5 - Analyte not detected, value indicates detection limit

-- - Not detected.

NA - Not analyzed

J - Analyte present, result may not be accurate or precise

B - Not detected substantially above the level reported in laboratory or field blanks

d - Sample is a duplicate of 6MW-2

Table 2 (cont.) Detected Analytes for Ground Water Samples
RFI Unit 6
Former Appliance Park East, Columbia, Maryland

| Sample Number | | | 6-MW-100 ^d | 6-MW-20 ^d | 6-MW-5 ^d | | 6-FB-1 | | 6-EB-1 | | 6-TB-1 | | TB-1 | |
|---------------------------------------|-----|-----|-----------------------|----------------------|---------------------|------------|----------|-----------|----------|-----------|----------|-----------|------------|------------|
| Sample Collection Date | | | 8/23/94* | 5/16/2002 | 11/14/2007 | 11/29/2012 | 8/22/94* | 5/16/2002 | 8/22/94* | 5/16/2002 | 8/23/94* | 5/16/2002 | 11/14/2007 | 11/29/2012 |
| Analyte | HBN | PQL | | | | | | | | | | | | |
| Field Parameters | | | | | | | | | | | | | | |
| pH (standard units) | -- | -- | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Conductivity (mS/cm) | -- | -- | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Temperature (°C) | -- | -- | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| D.O. (mg/L) | -- | -- | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Permit List 4 Volatiles (µg/L) | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | 7 | 5 | -- | 30 | 57 | 84 | -- | < 5 | -- | < 5 | -- | < 5 | < 5 | < 5 |
| cis-1,2-Dichloroethene | -- | 5 | NA | 83 | 95 | 96 | NA | < 5 | NA | < 5 | NA | < 5 | < 5 | < 5 |
| 1,2-Dichloroethene (total) | 100 | 5 | 10 | NA | NA | NA | -- | NA | -- | NA | -- | NA | NA | NA |
| Trichloroethene | 5 | 5 | 23 | 110 | 130 | 170 | -- | < 5 | -- | < 5 | -- | < 5 | < 5 | < 5 |
| Benzene | 5 | 5 | 2 J | < 5 | < 5 | < 5 | -- | < 5 | -- | < 5 | -- | < 5 | < 5 | < 5 |
| Tetrachloroethene | 5 | 5 | -- | 6 | 17 | 45 | -- | < 5 | -- | < 5 | -- | < 5 | < 5 | < 5 |
| Inorganic Parameters (µg/L) | | | | | | | | | | | | | | |
| Antimony | 10 | 30 | -- | < 5 | NA | NA | -- | < 5 | -- | < 5 | -- | < 5 | NA | NA |
| Chromium | 100 | 10 | -- | < 3 | NA | NA | 1 | < 3 | -- | < 3 | -- | < 3 | NA | NA |

Notes:

mg/L - milligrams per liter

µg/L - micrograms per liter

HBN - Health Based Number

PQL - Practical Quantitation Limit

* - Data presented in *RCRA Facility Investigation Report for RFI Unit 6*, dated 3 March 1995

< 5 - Analyte not detected, value indicates detection limit

-- - Not detected, detection limit not available

NA - Not analyzed

J - Analyte present, result may not be accurate or precise

B - Not detected substantially above the level reported in laboratory or field blanks

d - Sample is a duplicate of 6MW-2